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Visitors to the College are welcome and student guides are available. All administrative offices are open Monday through Friday from 8:30 A.M. to 5:00 P.M. when college is in session; otherwise to 4:30 P.M.

The Board of Admission office in Green Hall is open on Saturday mornings only when appointments have been arranged in advance. Visitors to this office are advised to write in advance for an appointment and are requested to plan their visits for times other than the month of April, when the Board meets to select the entering class.

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THE EXECUTIVE SECRETARY OF THE ALUMNAE ASSOCIATION
Alumnae affairs

CALENDAR

Academic Year 1960-61

First Semester

Registration of new students, 9 A.M. to 10:30 P.M.
Monday, September 19

Registration closes for all other students, 11:00 P.M.
Wednesday, September 21

Classes begin 1:10 P.M. ..... Thursday, September 22

Thanksgiving recess
- after classes ..... Wednesday, November 23
- to 1:00 A.M. ..... Monday, November 28

Christmas recess
- after classes ..... Friday, December 16
- to 1:00 A.M. ..... Friday, January 6

Examinations
- from ..... Tuesday, January 24
- through ..... Thursday, February 2

Second Semester

Classes begin ..... Monday, February 6

Spring recess
- after classes ..... Friday, March 24
- to 1:00 A.M. ..... Tuesday, April 4

Examinations
- from ..... Tuesday, May 23
- through ..... Thursday, June 1

Commencement ..... Monday, June 5

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ERICH W. GRITSCH, Cand.Theol., University of Vienna; S.T.M., M.A., Ph.D., Yale University — *Instructor in Biblical History*

ARTHUR LOUIS GROPEN, B.A., B.S., University of Chicago; Ph.D., Duke University — *Instructor in Mathematics*

JOHN HENRY HAGAN, JR., B.A., Harvard University; M.A., Ph.D., University of Chicago — *Instructor in English*

[4] Appointed for the first semester only.

JOAN EDNA HARTMAN, B.A., Mount Holyoke College; M.A., Duke University; Ph.D., Radcliffe College *Instructor in English*

JUDITH BARBARA HIRSCHFIELD, B.S., Carnegie Institute of Technology; M.A., Radcliffe College *Instructor in Mathematics*

RENATA ANITA CORNELIA HOFMAN *Instructor in German*

EVELYN BOLDRICK HOWARD, B.S., University of California (Los Angeles); M.S., Wellesley College *Instructor in Physical Education*

GEORGIA MAY HULAC, B.S., University of Nebraska; M.Ed., Woman's College, University of North Carolina *Instructor in Physical Education*

OWEN HUGHES JANDER, B.A., University of Virginia; M.A., Harvard University *Instructor in Music*

ROGER ALAN JOHNSON, B.A., Northwestern University; B.D., Yale University *Instructor in Biblical History*

LARRY DEAN JOHNSTON, B.A., M.A., University of Kansas *Instructor in Political Science*

CHARLES OSCAR JONES, B.A., University of South Dakota; M.A., Ph.D., University of Wisconsin *Instructor in Political Science*

MONIQUE JONQUET, Lic.-ès-Lettres, Dipl.E.S., University of Aix-en-Provence *Instructor in French*

DERRY DELOS KOOB, B.S., Kent State University; M.S., Ohio State University; Ph.D., Cornell University *Instructor in Botany*

MARGARET ELIZABETH LANG, B.A., Culver-Stockton College *Instructor in Chemistry*

MARY ROSENTHAL LEFKOWITZ, B.A., Wellesley College; M.A., Radcliffe College *Instructor in Greek*

EUGENE LEHNER *Instructor in Viola*

KAROL JAN MACASSY, B.A., M.A., University of Wisconsin *Instructor in Russian*

MARY LYON MANSON, B.A., M.A., Ph.D., Radcliffe College *Instructor in English*

GENEVIÈVE DE BIDART MERRILL, B.A., Vassar College; M.A., Radcliffe College *Instructor in French*

BENJAMIN CHARLES MILNER, JR., B.A., Emory University; B.D., Columbia Theological Seminary; M.A., Harvard University *Instructor in Biblical History*

ANNE PEPPER NEAL, B.S., Woman's College, University of North Carolina *Instructor in Physical Education*

JOAN MARIE NELSON, B.A., Oberlin College; Ph.D., Radcliffe College *Instructor in Political Science*

BETTY RAE NESBITT, B.A., George Washington University *Instructor in History*

ELLA PACALUYKO, B.A., Cornell University; M.A., Radcliffe College *Instructor in Russian*

JAMES PAPPOUTSAKIS *Instructor in Flute*

LOUISE CAME PAPPOUTSAKIS *Instructor in Harp*

LOIS F. PARDUE, B.M., University of Rochester *Instructor in Organ*

JAN PARKER, B.A., Connecticut College; M.A., University of Connecticut *Instructor in Economics*

JANET COX REARICK, B.A., Wellesley College; M.A., Ph.D., Radcliffe College *Instructor in Art*

WAYNE GILBERT ROLLINS, B.A., Capital University; B.D., M.A., Ph.D., Yale University *Instructor in Biblical History*

JOSEPH JAMES SCHIFFER — *Instructor in Art*

EDWIN MICHAEL SCHUR, B.A., Williams College; LL.B., Yale University; M.A., New School for Social Research; Ph.D., University of London — *Instructor in Sociology*

JOAN CROWELL SIEGFRIED, B.F.A., Carnegie Institute of Technology; M.A., New York University — *Instructor in Art*

PATRICIA MEYER SPACKS, B.A., Rollins College; M.A., Yale University; Ph.D., University of California — *Instructor in English*

INGRID HESS STADLER, B.A., Vassar College; M.A., Ph.D., Radcliffe College — *Instructor in Philosophy*

MARIAN LOUISE STOERKER, B.S., Lindenwood College; M.S., University of Wisconsin — *Instructor in Physical Education*

RICHARD BARTON SUMMERS, B.Mus., M.Mus., New England Conservatory of Music — *Instructor in Clarinet and Oboe*

FRANK COCHRAN TAYLOR II, B.A., Yale University — *Instructor in Organ*

JOCELYN MARY TAYLOR, B.A., Smith College; M.A., Ph.D., University of California — *Instructor in Zoology*

J. RICHARD TESSMER, B.S., Northwestern University — *Instructor in Mathematics*

BEATRICE TUGENDHAT, B.A., Radcliffe College; M.S., Brown University; D.Phil., Oxford University — *Instructor in Psychology*

WALTER WARREN WAGAR, B.A., Franklin and Marshall College; M.A., Indiana University; Ph.D., Yale University — *Instructor in History*

HAZEL JEAN WALDROP, B.A., Montana State University; M.B.A., Ph.D., University of Southern California — *Instructor in Economics*

RUTH V. WARD — *Instructor in German*

PATRICIA WEED, B.A., Smith College; M.A., Middlebury College — *Instructor in French*

EDWARD MICHAEL WHITE, B.A., New York University; M.A., Ph.D., Harvard University — *Instructor in English*

MARY ANN YOUNGREN, B.A., Swarthmore College; M.A., Radcliffe College — *Instructor in English*

ALFRED ZIGHERA — *Instructor in Cello*

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ESTHER PASTENE EDWARDS,[5] B.A., Wellesley College; M.A., Boston University — *Lecturer in Education*

MARTHA JANE ELLIS, B.A., Wells College; M.A., Mount Holyoke College; Ph.D., Radcliffe College — *Lecturer in History; Dean of Freshmen*

[4] Appointed for the first semester only.

[5] Appointed for the second semester only.

JOCELYN RUTH GILL, B.A., Wellesley College; M.S., University of Chicago; Ph.D., Yale University — *Lecturer in Astronomy*

MARCELLE GINDRE, Lic. d'Anglais, Agrégée d'Anglais, University of Paris — *Lecturer in French*

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ELISABETH ISENBÜGEL, Staatsexamen, Cologne University — *Visiting Lecturer in German*

ANNE CUTTING JONES, B.A., Grinnell College; M.A., Ph.D., Bryn Mawr College — *Lecturer in French*

LOUISE CATHERINE HEUSER KELLER, B.A., Radcliffe College; Ed.M., Boston University — *Lecturer in Education; Director of the Page Memorial School*

JEANETTE MCPHERRIN, B.A., Scripps College; M.A., Claremont College — *Lecturer in French; Dean of Sophomores*

HELEN IRENE MILTON, B.A., Queen's University (Kingston); S.T.B., M.Th., Trinity College (Toronto) — *Lecturer in Biblical History*

ENID JANE WOOD NICOL, M.A., St. Andrews University — *Lecturer in English*

IRENE RITA PIERCE,[5] B.A., Brooklyn College; M.A., Ph.D., Cornell University — *Lecturer in Psychology*

ELIZABETH JANE ROCK, B.S., College of Mount St. Vincent; M.A., Smith College; Ph.D., Pennsylvania State University — *Lecturer in Chemistry*

ALLEN DWIGHT SAPP, JR., B.A., M.A., Harvard University — *Lecturer in Music*

MAY SARTON[5] — *Lecturer in English*

ZINA JOAN TILLONA, B.A., Hunter College; M.A., Wellesley College; D.M.L., Middlebury College — *Lecturer in Italian*

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ROBERT J. SCHNEIDER, M.B.A. — *Business Manager*

HELEN BATES ANDERSON, B.S. — *Director of the Personnel Office*

[5] Appointed for the second semester only.

ELIZABETH CORNWALL, B.S.	*Executive Dietitian*
DONALD WATSON HEIGHT, B.S.	*Assistant Treasurer; Controller*
JOHN HERBERT KREINHEDER, B.S.	*Superintendent of Buildings and Grounds*
JOHN LOUIS LELIEVRE	*Purchasing Agent*

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JULIA MERRILL BAUER, B.A.	*Teacher*
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CONSTANCE ANN SCHUMACHER, B.S. in Ed.	*Teacher*
EVELYN CHRISTISON GREGORY, B.A.	*Teacher*
NATALIE B. BARLOW, B.A.	*Assistant Teacher*

PHYSICIANS

ELIZABETH LOUISE BROYLES, M.D.	*Resident Physician*
EDNA RUTH BREITWIESER, M.D.	*Associate Physician*
GRACE EVELYN WILDER, M.D.	*Assistant Resident Physician*
MAX L. WOOL, M.D.	*Consulting Psychiatrist*
WALTER KAUPE, M.D.	*Associate Consulting Psychiatrist*

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MARGARET WHITWELL BOYNTON	*Head of Freeman Hall*
LOUISE REYNOLDS BRADNER, B.A.	*Head of Tower Court*
RUTH ELIZABETH CAMPBELL, B.A.	*Head of Beebe Hall*
ALVA SCOTT GARFIELD, B.A.	*Head of Claflin Hall*
MIRIAM GRIFFIN HEDGES	*Head of Olive Davis Hall*
IRVA JONES, B.A.	*Head of Cazenove Hall*
THERESA DE KERPELY	*Head of Dower House*

[1] Absent on leave.

CARLA K. KUHLSTEDT	*Head of Pomeroy Hall*
RUTH CULLENS MARTIN, B.A.	*Head of Navy House*
HELEN FARR ROBERTSON, B.A.	*Head of Munger Hall*
EUDORA SMITH SALE	*Head of Bates Hall*
MARGARET TUCKER THURSTON	*Head of Shafer Hall*
CONSTANCE STANTON TURNER, B.A.	*Head of Severance Hall*
BARBARA LOCKE	*Manager of Horton, Hallowell, Shepard Houses*

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ELIZABETH HENSCHEN BAUER	*Secretary to the Foreign Student Adviser*
WILMA ANTOINETTE BUCHMAN, B.A.	*Assistant to Director, Development Fund*
BARBARA M. CLOUGH, M.A.	*Associate Director of Admission*
MARION COLE, M.A.	*Assistant Director of Publicity*
DORIS ELSIE DRESCHER, B.S.	*Assistant to the Director of Residence*
VIRGINIA PHILLIPS EDDY, B.A.	*Secretary to the President*
DORIS KIRKHAM GRANT	*Assistant to the Director of Admission*
THELMA CUMMINGS HALL	*Assistant to the Recorder*
MARION JOHNSON, B.A.	*Secretary to the Dean of the College*
RUTH BRANK KNEISEL, B.A.	*Assistant to the Dean of Students*
CHARLOTTE LOWNEY, B.A.	*Placement Counselor*
ELFRIEDE CARTER MACLAURIN, B.A.	*Placement Counselor*
GWENYTH MORGAN RHOME, M.A.	*Assistant Recorder*
HARRIET V. SULLIVAN, PH.D.	*Assistant to the Director of Admission*
BARBARA MAYNARD TWOMBLY, B.A.	*Manager, Information Bureau*
MARY SLADE WALKER, B.A.	*Assistant to the Director of Admission*
ALICE WILLARD, B.A.	*Program Director, Development Fund*
RHODA ZIEGLER, B.A.	*Manager, Duplicating Office*

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CLARA HELEN ANDERSON	*Secretary, Department of Physical Education*
M. EVA ARMSTRONG, B.A.	*Secretary and Custodian, Department of Music*
MARIEL T. CAMMANN, B.A.	*Secretary, Department of Biblical History*
ANN HEATH CRAM	*Secretary, Department of English*
DOROTHEA O. CROOKER	*Secretary, Department of Physics*
DORIS GRANT DALY	*Registrar, Department of Physical Education*
ALICE L. DANIELS	*Secretary, Department of Psychology*
VIVIEN KINGSFORD DOWST	*Secretary, Infirmary*
JUNE CHANDLER FLETCHER, B.A.	*Secretary, Department of Sociology and Anthropology*
FRANCES K. FOLSOM	*Custodian, Departments of Botany and Zoology*
MARTHA MILES GORDON	*Secretary and Custodian, Departments of Geology and Geography*
BEVERLEY KEMP GROPEN, B.A.	*Secretary, Page Memorial School*
BETSY BIRKETT HALL, B.A.	*Secretary, Department of Political Science*
EMILY MAY HOPKINS, M.A.	*Secretary and Custodian, Department of Chemistry*
ALICE CHURCHILL MOORE	*Secretary, Department of Art*
MILDRED BOND REMSEN	*Secretary, Department of Economics*
KATHARINE CUTTING SEARS, B.A.	*Secretary, Department of History*
ANITA DOORLY SHERRILL	*Secretary, Department of French*
MILDRED L. THORNTON	*Secretary, Departments of Botany and Zoology*

THE COLLEGE

Wellesley College is a liberal arts college for women situated in the township of Wellesley twelve miles west of Boston. The four hundred acre campus was once the country estate of Henry Fowle Durant, a wealthy Boston lawyer. In the 1860's Mr. Durant and his wife, moved by religious convictions, decided to establish a residential college that would "offer to young women opportunities for education equivalent to those usually provided in colleges for young men." It was Mr. Durant's hope that in this college young women could prepare themselves "for great conflicts, for vast reforms in social life, for noblest usefulness." The decision was followed by years of preparation until the College received a charter in 1870 and in 1875 was opened to three hundred and fourteen students.

The resources and size of the College grew steadily. The single building with which Wellesley started, College Hall, housed all students and faculty and contained the library, chapel, classrooms, and laboratories. As the number of students increased, other buildings were added, but College Hall remained the center of community life until it was destroyed by a great fire in 1914. Gradually Wellesley was rebuilt; in place of one enormous structure housing many activities, buildings for special uses were erected on the various hills on the campus.

Today more than forty buildings provide facilities for the intellectual and community life of the College. Fourteen of them are residence halls for undergraduate students. Most of the halls are large, with the result that the student, who finds that academic instruction is usually given in small groups, in the course of her residence forms a wide acquaintance with people who come from many different regions.

Wellesley believes that the study of the liberal arts develops perspective and intellectual strength for the endeavors of a lifetime. It seeks to give to the student broad knowledge of her cultural heritage and to develop her competence in and respect for disciplined, honest thinking. These purposes of the College have remained constant since its founding, while the particulars of its programs are frequently revised under the influences of the changing contemporary world.

The faculty is composed of approximately 170 men and women, trained in many different universities here and abroad and chosen to maintain Wellesley's tradition of good teaching and sound scholarship. The student body includes approximately 1,700 young women who bring to the community the cultural, economic, and regional diversity of the United States, and also representation of many foreign countries. Because of the size and composition of the College the student meets a wide range of view-

points and fields of special interest; yet she finds that the policies of the modern Wellesley permit education to be an individual process as it was when the College began.

Most classes are small enough to make possible the exchange of ideas between student and teacher and to enable the faculty to know and plan for the needs of each individual. The student is not provided with a required "core" curriculum but in the freshman and sophomore years is asked to elect from many available courses work in the humanities, the social sciences, and the sciences. In this way she builds at once on her own earlier education and her present interests while developing with her fellows a basic community of understanding of the liberal arts.

As soon as she wishes and at the latest by the end of the sophomore year, she selects a major. Within her major department she continues to develop her particular interests by choosing her special work from its offering of advanced courses, seminars, and guided independent study, while limitation of the amount of specialization safeguards the broadly liberal purpose of the four-year undergraduate curriculum.

The student is expected to take the initiative in planning her program and in meeting her academic and residential obligations. At various times before reaching decisions she may need counsel or may wish to talk freely with an older person about her academic or personal life. At such times she can turn easily to her class dean who keeps in touch with her academic progress and her personal welfare, or to her instructors, including the ordained ministers who are teaching members of the faculty, to the resident head of her house, or to the college physicians and psychiatrists. After she selects a major, she may also find helpful the chairman or her adviser in the major department. If she has financial difficulties, she may turn to her dean, to the secretary to the Committee on Scholarships, or to the Students' Aid Society. If she wishes paid work during the academic year or in vacations, or if as a graduating senior or an alumna she wishes employment, the director of the Placement Office is prepared to help her. Because maturing independence is respected, advice is not thrust upon the student, but it is readily available from experts in various areas and from intelligent adults interested in each individual.

The learning situation created by student and teacher is strengthened by the quality of the physical facilities available for their use. At Wellesley the student of the biological or physical sciences finds laboratories unusually well equipped for undergraduate work and having in addition equipment for the work of graduate students and professors, whose research activities she may be invited to share. The student of art finds in the permanent collections on the campus a representative selection of monuments and extensive collections of slides and photographs, as well as rotating loan exhibits. The student of music finds listening rooms where

she has access to large libraries of records and practice rooms equipped with grand pianos. The student of language has a modern language laboratory available for her use, and for interested students of French, German, or Spanish special residential corridors are maintained. Any student interested in the young child may observe and work with boys and girls in the college laboratory school for three, four, and five year olds.

Every student benefits from library collections which are unusual in size and quality for an undergraduate college. The working library contains approximately 300,000 volumes carefully selected to meet the needs of the faculty as well as the students. Subscriptions to more than 1,000 American and foreign periodicals and the deposit of certain Government publications important to the student of the social sciences add to its usefulness. Special collections, containing rare items as well as important collateral works, offer opportunities for research to the undergraduate student and the advanced scholar. The College is fortunate in having distinguished collections in English poetry, Italian literature, Medieval European literature, and on the Far East. Except for the rare volumes in these and other special collections, books are kept on open shelves to which the student has immediate access.

A broad program of extracurricular activities, made possible by the size and residential character of the College, supplements the liberal arts curriculum. From them the student chooses those which will contribute most to her enjoyment and growth. She may attend lectures by distinguished scholars, readings by poets, concerts given by famous artists, and art, book, and scientific exhibits. Through participation in various organizations she may test and develop interests in such areas as music, theatre, athletics, journalism, social service, political and civic activity. Whatever her special interest, she finds opportunity to associate informally and to work cooperatively with others.

Some of the student groups, such as choir and theatre, have professional direction; most are organized and conducted entirely by students. Two of them, the Chapel Organization and the College Government Association, are sponsored jointly by students and faculty. The Chapel Organization supports daily services led by members of the community and Sunday services led by well-known ministers, at all of which attendance is voluntary. It also coordinates denominational and interfaith activities, although the College itself continues to be a Christian, non-denominational institution. The College Government Association, to which all students belong, has executive, legislative, and judicial branches with elected student and faculty representatives, in each of which student representatives form the majority. This Association supports the methods and spirit of responsible democracy; it charters all extracurricular organizations, establishes committees such as the Student Education Committee, and determines social and residential regulations.

The present college is in marked contrast to the small faculty and student body, the one building, the collection of eight thousand books, and the restricted social life with which Wellesley started. Yet the serene beauty of the campus remains unchanged, and the student now as always finds opportunity to develop her standards of ethics and taste, of personal and civic responsibility, and her intellectual and creative gifts.

PRESIDENTS

Ada Howard (1875-1881)
Alice Freeman (1881-1887)
Helen Shafer (1887-1894)
Julia Irvine (1894-1899)
Caroline Hazard (1899-1910)
Ellen Fitz Pendleton (1911-1936)
Mildred McAfee Horton (1936-1949)
Margaret Clapp (1949-)

THE CURRICULUM

The curriculum is designed to enable each student to achieve a sound liberal education. To provide the opportunity to gain breadth of knowledge and understanding, each student is asked to select a number of courses distributed among several representative fields of knowledge: the humanities, the social sciences, and the natural sciences. In this part of her work she will become acquainted with ways of thinking and with significant content in several disciplines. To provide a means to achieve depth in learning, each student is asked to choose a field of concentration consisting of a major and allied subjects. In this work she should acquire solid knowledge of one field and an understanding of its particular contribution to our civilization; also, she should develop the competence which comes from continued training and advanced study in her chosen field.

There is scope within the curriculum for each student to meet the specific requirements for the degree and, in addition, to choose a considerable number of courses without any restriction as to subject. Indeed, the purpose of the curriculum is to provide the framework within which the student, assisted by her academic advisers, constructs a program of study suited to her individual interests.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Each candidate for the degree of Bachelor of Arts is required to complete 114 semester hours* of academic work. The normal period of time in which to earn the degree is four years and a normal program of study consists of five courses (15 hours) in each semester of the first three years, and four courses (12 hours) in each semester of the senior year. Also, seniors are required to prepare for a general examination in the major subject.

Required Courses

English 100 (freshman year) 6 hours**

Biblical History 104 (sophomore year) 6 hours***

Physical Education, two periods a week in the freshman and sophomore years (no academic credit)

Distribution of Studies

Twelve hours (two year courses or their equivalent in semester courses) are to be elected as indicated from each of the three groups of subjects listed below. Of the 36 hours required for distribution, at least 24 hours

* All references in this catalogue are to semester hours.

** Some students will be exempted on the basis of entrance records and tests taken at Wellesley.

*** Students who are able to read Greek may substitute Biblical History 210 (2), The First Three Gospels in Greek, for the second semester of the required course.

are to be taken in the freshman and sophomore years. It is permitted, and in many cases it may be desirable, to postpone until junior and senior years 12 hours, not more than 6 hours in each of two groups. Because in some departments certain courses do not count for distribution, in electing courses to meet this requirement students should consult the "Directions for Election" of each department.

Group I. Literature, Foreign Languages, Art and Music.

> Departments of English, French, German, Greek, Italian, Latin, Russian, Spanish, Art, Music.

Twelve hours are to be elected in Group I, 6 in one department and 6 in one or two other departments. Of the 12 hours in this group, at least 6 hours must be in literature, English or foreign: courses in English literature,* courses in Greek, Latin or Russian literature in translation, courses in a foreign language in which the main emphasis is on literature.

Group II. Social Science, History and Philosophy.

> Departments of Economics, Political Science, Sociology and Anthropology, History, Philosophy.

Twelve hours are to be elected in Group II: 6 hours in economics, or political science, or sociology and anthropology; 6 hours in history or philosophy.

Group III. Science.

> Departments of Astronomy, Botany and Bacteriology, Chemistry, Geography, Geology, Mathematics, Physics, Psychology, Zoology and Physiology.

Twelve hours are to be elected in Group III, 6 hours in one department and 6 in one or two other departments.** Of the 12 hours in this group, at least 6 hours must be in a laboratory course in one of the following: astronomy, botany, chemistry, geology, physics, zoology, the interdepartmental courses in biology or in physical science. The remaining 6 hours may be taken in courses either with or without laboratory work.***

Students who have not taken a recent course in biology in school should consider the advisability of electing botany, zoology or Interdepartmental 103. Those who have not taken a recent course in chemistry or physics in school should consider the advisability of electing one of the physical sciences: astronomy, chemistry, geology, physics or Interdepartmental 106.

* English courses with emphasis on writing may not count for distribution.

** If Interdepartmental 103 or 106 is elected, the remaining 6 hours must be taken in departments not included in the interdepartmental course.

*** Interdepartmental 218, History of Science, counts for distribution as a non-laboratory course.

FIELD OF CONCENTRATION

At least 42 hours are to be elected in one field of concentration. This includes a major of 24 or more hours in one department and 18 to 12 hours in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.

Courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Of the 42 hours in the field of concentration, at least 18 hours must be above grade I; at least 12 hours must be grade III; and at least 6 hours of grade III must be taken in the senior year.

Courses taken in fulfillment of the distribution requirement may be counted in the 42 hours in the field of concentration unless otherwise specified by the department.

During the freshman year, with the assistance of the class dean, all students will begin to give thought to the choice of their major subjects and some may reach a final decision. In the second semester of the sophomore year each student, after consultation with the chairman of the appropriate department, elects a major subject and related courses, and prepares for the Recorder a statement of the courses to be included in the field of concentration. If later revisions are necessary, the final plan for the field of concentration, approved by the chairman of the major department, should be presented to the Recorder not later than the spring of junior year.

All departments of the College offer major courses of study except the following: Education, Physical Education, Russian, Speech.

Some students wish to center their study upon an area, a period, or a subject which cuts across the lines of departmental organization. This can be done by meeting the minimum requirements for a major in one department and by careful selection of free electives and of courses related to the major. A student who is interested in a program of this kind should consult her class dean and the chairmen of appropriate departments as soon as possible in her college course. Among the numerous possibilities for such study are programs centering on Asia, Latin America, Russia, the United States; the Middle Ages, the Renaissance; International Relations, Natural Resources, Theatre Studies.

FOREIGN LANGUAGE REQUIREMENT

Each candidate for the degree of Bachelor of Arts must show before the beginning of senior year that she has some proficiency in the use of at least one foreign language, ancient or modern. This requirement may be met by passing one of the language tests of the College Entrance Examination Board at a score of at least 580, or by the completion of a 6 hour course in college at the second year level or higher. The following

courses are of the second year level: French 102, German 102, Greek 201, 202, 205, Italian 201, 204, Latin 103, Russian 200, Spanish 102.

General Examination

At the end of the senior year each candidate for the degree of Bachelor of Arts must pass a general examination in her major subject, unless as a candidate for honors she is asked to pass special examinations taken in place of the general examination.

The general examination is intended to test the student's intellectual initiative and independence in analyzing, organizing, and relating the material of her major subject; her knowledge of and ability to apply leading ideas met in that subject.

Supplementary Directions

Within the 114 hours required for the degree, the student is permitted to elect:

(1) Not more than 42 hours in any one department

(2) Not more than two of the following courses: French 101, German 101, Italian 101, Russian 100, Spanish 101

(3) No studio work in Art without the required amount in the history of art (see department statement)

(4) Not more than 18 hours in Education

(5) Not more than 15 or 18 hours in Speech (see department statement)

The program for the senior year may not include more hours of grade I work than of grade III.

Standard for Graduation

To be recommended for the degree of Bachelor of Arts, a student must complete 114 semester hours of academic work at a C average or better, and she must pass the general examination in her major department, or special examinations for honors in the major subject.

Residence Requirement

A candidate for the degree of Bachelor of Arts must be in residence at Wellesley College for at least two years, one of which must be the senior year.

Standard of Written and Spoken English

Students are expected to use good English in their written work in all departments. A student in any class who fails to maintain acceptable standards may be referred to the department of English for remedial work.

Students are also expected to maintain good standards of spoken Eng-

lish. The department of Speech offers courses, and also individual work without academic credit, for students who wish to improve the quality of their oral English.

RESEARCH OR INDEPENDENT STUDY

Each department of the College which offers a major course of study provides the opportunity for certain students to undertake a program of individual study directed by a member of the faculty. Under this program, an eligible student may undertake a research project or a program of reading in a particular field. The results of her work normally will be presented in a thesis or in a series of short essays. The conditions for admission to this work in each department are described under the course title, 350, Research or Independent Study.

HONORS AND ACADEMIC AWARDS

HONORS IN THE MAJOR SUBJECT

Students who have shown marked excellence and an unusual degree of independence in their work in the major subject may receive the Bachelor of Arts degree with Honors in the Major Subject. Under a program called Special Honors an eligible student may be invited to undertake a piece of independent investigation in which her work will be supervised by a member of the faculty; the successful completion of the independent work and of an honors examination leads to the award of Honors in the Major Subject. Under a plan called General Honors this same award may be made to students who have shown an unusual degree of independence or distinction in courses in the major subject, have elected a sound program in the field of concentration, and have written an excellent general examination.

The intent behind both plans is to single out the most able scholars for this recognition. To be recommended for this award the student, in addition to showing marked excellence in her major subject, must maintain a good general average in all her academic work.

ACADEMIC AWARDS

Distinction and promise in academic work are recognized by special awards. These awards, unlike financial aid which is described on pages 116-119, are honors open to all students and are awarded without reference to need.

The College confers Freshman Honors on students who maintain high academic standing during the freshman year. It names as Wellesley College Scholars juniors and seniors who maintain high academic standing after the freshman year. The highest title conferred by the College is

that of Durant Scholar, which is reserved for juniors and seniors whose scholastic records after the freshman year are outstanding. Honors in the major subject are described above.

Seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi, national honorary scientific society.

On recommendation of the faculty the trustees award to four seniors who intend to pursue graduate studies the title of Trustee Scholar. The awards are made on a competitive basis in two categories: two for graduate study without restriction as to subject; two for graduate study undertaken as preparation for college teaching. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to alternates who need financial assistance.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored.

GENERAL INFORMATION

Course Examinations

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies and for advanced standing may be taken during any examination period and at other specified times.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year must apply to the Recorder for the requisite card of admission to the examination.

Exemption Examinations

In many departments exemption examinations are offered for those students who may wish to meet part of the distribution requirement by taking an examination rather than by electing a course. A student is permitted to anticipate in this way no more than 6 of the 12 hours required for distribution in each of the three groups of studies. (See pages 24 and 25.) A student who wishes to apply for an exemption examination to be taken at the beginning of the college year should write to the Recorder before the first of September.

Advanced Placement

Students are encouraged to enter the most advanced courses for which they are prepared by previous study. For information about advanced

placement and credit, either with or without special examinations, see pages 110-11.

USE OF THE SUMMER VACATION

Students are encouraged to make constructive use of the long summer vacations, supplementing in them the work and activities of the academic year. Several possibilities are recognized, for example, field or laboratory work, vocational experience, and serious and ordered reading. It is expected that all students will undertake some serious reading, and to assist them in planning it a general book list is given to freshmen in the second semester for use throughout their college years. Also, for sophomores and juniors, major departments prepare more specialized lists in which the suggested reading is designed to enrich the student's knowledge of her major subject.

THE SUMMER INTERNSHIP IN GOVERNMENT

The College joins with Vassar College in sponsoring a program that enables students from various departments to learn at first hand of the operations of the Federal Government. Students who are accepted for the program spend six weeks in Washington during the summer preceding their senior year. A director arranges assignments in various government bureaus, Congressional offices, and headquarters of the Democratic and Republican National Committees, and meets regularly with the interns during the six weeks.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Wellesley students may study in Paris under the plan sponsored by Sweet Briar College, or in Munich under the auspices of Wayne University, or in Florence, Geneva, Madrid or Paris with groups organized by Smith College. A student who wishes to join one of these groups must have a good academic record and competence in the language of the country in which she plans to study; in general two years of study of the language at the college level are necessary to provide adequate preparation. In advance of making application, a student must have the approval of the chairman of her major department and of her class dean.

PREPARATION FOR GRADUATE STUDY

COLLEGE TEACHING AND RESEARCH

A student who wishes to enter college teaching and research will find that the undergraduate work of the College provides preparation for graduate study leading to advanced degrees in the arts and sciences.

She should consult as early as possible the chairman of her major department, or of the department in which she hopes to pursue graduate study, to learn which courses in her field of special interest and which foreign languages will be most useful to her. It should be noted that for graduate study in many fields a reading knowledge of two specified languages is required. The student will find her class dean, her faculty adviser, the chairmen of departments and the Placement Office helpful in locating information about graduate schools.

Other Professions

In her undergraduate work a student may meet the requirements for the degree of Bachelor of Arts and at the same time prepare to enter professional schools, for example, architecture, law, medicine, social service administration, teaching. A sound education in the liberal arts is considered the best preparation for admission to most professional schools but a student who is interested in any one of the professions should consult her class dean to discuss the particular emphasis which she should make in her undergraduate program. She should also consult as soon as possible the catalogue of the graduate school which she has chosen.

Teaching in Schools

Some teaching positions in public as well as in private schools are open to college graduates without further study, although a year of graduate work is required for teachers in many public school systems. Courses in the principles and history of education given by the department of Education help a student to prepare for teaching and to meet some of the requirements for certification. They also serve as prerequisites for graduate work in education.

Wellesley is one of a group of colleges affiliated with the Harvard Graduate School of Education in a program which affords graduates of the cooperating colleges special opportunities for practice teaching in the summer, for paid teaching internships during the regular school year, and for graduate study at Harvard.

A student who cannot plan for graduate work immediately after college is advised to consider enrolling, during the summer following her junior year, in one of several summer programs which provide courses in methods in conjunction with supervised practice teaching.

A student who intends to teach should consult the chairman of the Education Department about requirements for certification and ways of preparing to meet them.

Medical School

In general, the minimum requirements for admission to recognized medical schools can be met by two year courses in chemistry (which must

include a year course in organic chemistry), a year course in physics, and a year course in zoology. Because there is some variation in the minimum requirements and some medical schools have specific requirements, a student should consult the most recent catalogues of the particular medical schools in which she is interested.

Many students planning to study medicine elect two pre-medical sciences in the freshman year. At present considerable emphasis is being placed by the medical schools on the importance of a liberal education as a preparation for medical studies and it is possible to fulfill the minimum requirements for medical school and to take the general examination in a field not required for entrance. A student, therefore, is advised to major in the field of her greatest interest. Students wishing to prepare for medical school should consult Professor Harriet C. Waterman, department of Zoology and Physiology.

HOSPITAL AND PUBLIC HEALTH WORK

A student planning to prepare for work in hospital or public health laboratories should begin both chemistry and zoology in the freshman year in order to have the necessary foundation for advanced courses in these subjects and for courses in bacteriology. Students should consult their class deans for advice in planning their programs.

THE CIVIL SERVICE

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult her major department and the Placement Office about current requirements. For many positions some work in statistics and public administration is desirable; graduate study is a qualification for many of the more important posts.

GRADUATE FELLOWSHIPS

FELLOWSHIPS FOR ALUMNAE OF WELLESLEY COLLEGE

Four graduate fellowships providing stipends which range from $1,180-$3,000 are open only to alumnæ of Wellesley College: the Horton-Hallowell Fellowship for a candidate for the Ph.D. degree; the Vida Dutton Scudder Fellowship for a graduate student in the field of social science, political science, or literature; the Fanny Bullock Workman Scholarship for a student who has completed one year of graduate study; and the Edna V. Moffett Scholarship of $1,540, awarded in alternate years in the field of history.

Graduates of the College are eligible to compete for three fellowships

of $2,000 which are awarded annually by the American School of Classical Studies in Athens. Qualified graduates are exempt from any charge for tuition at the American School of Classical Studies in Athens or in Rome.

FELLOWSHIPS AND ASSISTANTSHIPS FOR ALUMNAE OF ANY COLLEGE

Several scholarships are available for candidates for the degree of Master of Arts at Wellesley College. Also, assistantships, which provide stipends of $1800, are available in certain science departments for candidates for the master's degree. Information may be obtained from the Secretary of the Committee on Graduate Instruction.

Four graduate fellowships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college including Wellesley College. They provide stipends ranging from $500-$2,500. The Alice Freeman Palmer Fellowship is without restriction as to field; the Anne Louise Barrett Fund and the Harriet A. Shaw Fund are preferably for study in the field of music; the Amy Morris Homans Fellowships are for study in the field of physical education. Further information and application blanks may be obtained from the Secretary to the President. Application should be made by February 10.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

A candidate for the degree of Master of Arts is required to complete 24 hours of graduate work, which may include a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by examination *at entrance,* is required. Individual departments may require a second language. At least one year in residence is required of all candidates.

Some departments, but not all, accept candidates for the Master of Arts degree. The College does not maintain a program of courses for graduate students separate from those offered for undergraduates. Properly qualified graduate students are admitted to grade III courses, to seminars, and to course 350, Research or Independent Study.

Information regarding admission, living arrangements, graduate assistantships and scholarships will be found in the bulletin, *Graduate Study at Wellesley College,* which will be sent upon application to the Secretary of the Committee on Graduate Instruction.

COURSES OF INSTRUCTION

1960-1961

The following courses of instruction are offered by the several departments. The College reserves the right to withdraw any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Grade I courses are numbered 100, etc.; grade II courses 200, etc.; grade III courses 300, etc.

The first semester is indicated by (1) following the course number; the second semester by (2). Courses not so designated are year courses. The number of hours of credit appears in parentheses following the course title. A semester course which carries three hours of credit requires approximately nine hours of work each week spent partly in class and partly in preparation. The amount of time scheduled for classes varies with the subject from two hours each week in many courses in the humanities and social sciences to three, four, or five scheduled hours in certain courses in foreign languages, in art and music, and in the sciences. A class period is sixty minutes in length. Classes are scheduled from Monday morning through late Friday afternoon.

ART

Professors: Bernard Chapman Heyl,[3] m.f.a. (Chairman); John McAndrew, m.arch.; Teresa Grace Frisch, ph.d.

Associate Professors: Agnes Anne Abbot; Diether Thimme;[1] Elizabeth Holmes Frisch; Curtis Howard Shell, ph.d.

Assistant Professor: Richard Boyce

Instructors: Joan Crowell Siegfried, m.a.; Jo Sandman Asher, m.a.; Jason Berger[4]; Janet Cox Rearick, ph.d., Director of the Art Museum; Mary Ann Frantz, m.a.; Joseph James Schiffer; Anne Bromberg, m.a.

History of Art

Many of the courses in art include some laboratory work in the one or more mediums with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular natural aptitude is required and that the work is adjusted to the student's ability.

100. Introductory Course (6 hrs.)

The major styles in Western architecture, sculpture, and painting from ancient times to the present. A foundation for further study of the history of art. Simple laboratory work (requiring no previous training or artistic skill) planned to give the student a greater understanding of artistic problems. Open without prerequisite to freshmen and sophomores. *The Staff*

[1] Absent on leave.

[3] Absent on leave for the second semester.

[4] Appointed for the first semester only.

201 (2). Greek Sculpture (3 hrs.)

The development of Greek sculpture from its origins through the Hellenistic age. Study of focal monuments and artists in each successive period. Laboratory work, consisting largely of modeling and carving. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite.

———, *Mrs. Asher*

202 (1). Medieval Sculpture (3 hrs.)

Western European sculpture of the Romanesque and Gothic periods, introduced by a brief study of pre-Romanesque art. Laboratory work consisting largely of modeling and carving. Prerequisite, same as for 201.

Miss Frisch, Miss Abbot

203 (2). Medieval Architecture (3 hrs.)

The architecture of Western Europe from the Fall of Rome to the beginning of the Renaissance, with particular concentration on the great Romanesque and Gothic monuments. Occasional laboratory work. Prerequisite, same as for 201.

Mr. McAndrew, Mr. Schiffer

207 (2). Art of the Far East (3 hrs.)

A study of the art of India, China, and Japan, with particular emphasis on China. No laboratory work. Open to juniors and seniors without prerequisite.

Miss Frisch

209 (1). Art of the Roman Empire (3 hrs.)

The major monuments of architecture, sculpture, and painting in the Roman Empire from the formation of the Roman style through the Late Antique. Emphasis upon Roman contributions to the main tradition of Western art. No laboratory work. Prerequisite, same as for 201. *Mrs. Bromberg*

215 (1). European Art Through the Renaissance (3 hrs.)

The major movements in architecture, sculpture and especially painting from classical antiquity to about 1550. No laboratory work. Open to sophomores who have taken History 101 or Italian 101 or 103, and to juniors and seniors who have not taken or are not taking Art 100. *Mrs. Rearick*

216 (2). Post-Renaissance and Modern Art (3 hrs.)

Western art from the beginning of the 17th century to the present. No laboratory work. Open to sophomores who have taken 215 and to juniors and seniors who have not taken 218 and have not taken or are not taking 100, or 219.

Mrs. Rearick

219 (1). Nineteenth Century Painting (3 hrs.)

A study of painting of the 19th century in Europe and America with emphasis on France. No laboratory work. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite. Not open to students who have taken 216. *Miss Siegfried*

220 (1). Painting of the Seventeenth and Eighteenth Centuries in Southern Europe (3 hrs.)

Italian painting from Caravaggio through Tiepolo, and Spanish painting from El Greco through Murillo. No laboratory work. Open to sophomores who

have taken 100, and to juniors and seniors without prerequisite. (Not offered in 1960-61.)

221 (2). PAINTING OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN NORTHERN EUROPE (3 hrs.)

Flemish, Dutch and French painting of the 17th century; French and English painting of the 18th century. No laboratory work. Prerequisite, same as for 220. *Mrs. Rearick*

301 (2). SEMINAR IN ANCIENT ART (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Ancient Art. No laboratory work. Open to juniors and seniors who have taken 201 or 209. (Not offered in 1960-61.)

302 (1). ITALIAN PAINTING: THE FOURTEENTH AND FIFTEENTH CENTURIES (3 hrs.)

A brief exposition of late medieval style in Italian painting, followed by studies of selected artists whose work significantly illustrates the character of Early Renaissance style. Particular attention to Florentine masters. Laboratory work included. Open to juniors and seniors who have taken, or are taking, a grade II course in the department, and, by permission, to especially qualified students. *Mr. Shell, Mr. Boyce*

303 (2). ITALIAN PAINTING: THE SIXTEENTH CENTURY (3 hrs.)

Studies of the major masters of the High Renaissance style, followed by the examination of some selected Mannerist painters, and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Laboratory work included. Prerequisite, same as for 302. *Mr. Shell, Mr. Boyce*

304 (2). RENAISSANCE, BAROQUE, AND MODERN SCULPTURE (3 hrs.)

A study of the major sculptors from the 15th century to the present. Laboratory work consisting largely of modeling and carving. Open to students who have taken 100 or 215 and, by permission, to especially qualified students. *Miss Siegfried, Mrs. Asher*

305 (2). MODERN PAINTING (3 hrs.)

A study of European and American painting in the 20th century. Prerequisite, same as for 302. Laboratory work included. *Mr. McAndrew, Mrs. Frisch*

306 (2).* THE GRAPHIC ARTS FROM THE RENAISSANCE TO THE PRESENT (3 hrs.)

Emphasis on the styles of Dürer, Rembrandt, Goya, Picasso. Special attention to the influence of technique upon style. Laboratory instruction in the processes of woodcut, engraving, etching, lithography. Visits to collections. Open by permission to juniors and seniors who have taken a grade II course in the department. (Not offered in 1960-61.) *Mr. Thimme, Mr. Boyce*

307 (2).* PROBLEMS IN MEDIEVAL STYLE AND TECHNIQUE (3 hrs.)

Study of selected manuscripts, mosaics, and wall paintings in Italy between

* Offered in alternate years.

the 4th and the 13th centuries, with experiments in the medium concerned, for close stylistic and technical analysis. Prerequisite, same as for 302.

Miss Abbot

308 (1). Renaissance and Baroque Architecture (3 hrs.)

The Early and High Renaissance, Mannerist and Baroque styles of the 15th through the 18th centuries, with particular emphasis on Italy. No laboratory work. Prerequisite, same as for 304. (Not offered in 1960-61.)

Mr. McAndrew

309 (1). Modern Architecture (3 hrs.)

The development of modern architecture in Europe and America in the last seventy years. Laboratory work included. Prerequisite, same as for 302.

Mr. McAndrew, Mr. Schiffer

311 (1). Painting of Northern Europe (3 hrs.)

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Laboratory work included. Prerequisite, same as for 304. *Miss Siegfried, Mrs. Frisch*

325 (1). Seminar. The Nature and Criticism of Art (3 hrs.)

A study of various kinds of artistic analyses, and a consideration of problems in the theory and practice of criticism. Open, by permission, to seniors who have taken, or are taking, six additional hours of grade III. *Mr. Heyl*

330 (1). Seminar. Italian Painting (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open, by permission, to juniors and seniors who have taken 302 or 303. (Not offered in 1960-61.) *Mr. Shell*

350. Research or Independent Study (3 or 6 hrs.)

Open, by permission, to juniors and seniors who have taken, or are taking, a course of grade III.

Studio Courses

Six hours of studio work may count toward the degree after six hours in the history of art have been taken; and twelve hours after twelve hours in the history of art have been taken.

105 (1). Drawing and Sculpture (3 hrs.)

Study of drawing and sculpture, with strong emphasis on design. Abstract problems in line and in relief, as well as portraiture and figure sketching. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Four periods of class instruction and three of studio practice. *Mr. Berger*

106 (2). Introductory Painting and Design (3 hrs.)

Spatial and tonal problems partly abstract, partly representational, worked out in a variety of mediums and materials. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Five periods of class instruction and three of studio practice.

Mrs. Frisch, Mrs. Asher

206 (1). WATERCOLOR AND OIL PAINTING (3 hrs.)

Landscape, still life, and painting from model. Open to sophomores, juniors, and seniors who have taken 100, 105, or 106. Five periods of class instruction and three of studio practice. *Mrs. Frisch, Mr. Boyce*

208 (2). DESIGN (3 hrs.)

The elements of visual communication, line, form, color, studied in relation to the special function or purpose which the work of art may be called upon to fulfill. Exploration of the potentialities and restrictions of the particular process or material. Open to sophomores, juniors, and seniors who have taken 105, 106, or 206. Five periods of class instruction and three of studio practice. *Mr. Boyce*

300 (1). ADVANCED PAINTING. I (3 hrs.)

Clarification of various problems in the language of painting, dealt with largely through the oil medium. Individual problems. Open by permission to juniors and seniors who have taken at least one other studio course. Four periods. (Not given in 1960-61.) *Mr. Boyce*

312 (2). ADVANCED PAINTING. II (3 hrs.)

A continuation of 300. Prerequisite, same as for 300. (Not offered in 1960-61.)

DIRECTIONS FOR ELECTION

Course 100 is the basic introductory course for later work in the department and is required, except by special permission, of majoring students. (See Exemption Examination, below.)

Students planning to major in the department must elect at least one grade II course in ancient, and one in medieval art.

Students majoring in the department must elect at least 24 hours in the history of art.

A reading knowledge of French, German, or Italian, though not required, is very strongly recommended.

The attention of students is called to the interdepartmental major program in Classical Archeology.

PLACEMENT AND EXEMPTION EXAMINATIONS

Freshmen and sophomores, who secure the permission of the chairman, may qualify for entrance to grade II in art by passing an exemption examination, thus waiving the requirement of course 100.

RELATED COURSES

Related courses may be chosen from many departments: English, History, Music, Philosophy, departments of foreign language and literature.

By careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one century or period such as Ancient, Medieval, Renaissance, or Modern. Students interested in such a plan should consult the chairman of the department as early as possible.

ASTRONOMY

Professor: SARAH JEANNETTE HILL, PH.D. (Chairman)

Lecturer: JOCELYN RUTH GILL, PH.D.

101. ELEMENTARY ASTRONOMY (6 hrs.)

The solar system; stars, nebulae, galaxies. Open to all undergraduates. Two lecture periods and one two-hour laboratory period. Approximately one-third of the laboratory time is scheduled in the evening for observation and use of the telescopes. *Miss Hill, Miss Gill*

200 (2). MODERN PHYSICS (3 hrs.)

For description and prerequisite, see Physics 200.

201 (1). ELECTRICITY AND OPTICS (3 hrs.)

For description and prerequisite, see Physics 201.

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

For description and prerequisite, see Mathematics 202.

203 (1). STELLAR ASTRONOMY (3 hrs.)

Selected topics of stellar astronomy, with emphasis on current work. Stellar populations, stellar evolution, radio astronomy, extra-galactic systems. Prerequisite, 101. *Miss Hill*

204 (2).* PRACTICAL AND SPHERICAL ASTRONOMY (3 hrs.)

Theory and use of the transit instrument and equatorial telescope. Introduction to least squares. Prerequisite 101 and prerequisite or corequisite Mathematics 106 or 107. (Not offered in 1960-61.) *Miss Hill*

205 (2).* INTRODUCTION TO ASTROPHYSICS (3 hrs.)

The physical nature of the sun and stars derived from analysis of their spectra. Prerequisite, 101, or Physics 101 or 104, and prerequisite or corequisite, Mathematics 106 or 107. *Miss Hill*

300 (1). BINARY STARS (3 hrs.)

The two-body problem, the determination of the orbits of visual and spectroscopic binaries, stellar masses. Prerequisites, 101 and Mathematics 202. *Miss Hill*

302 (2). GALACTIC STRUCTURE (3 hrs.)

The methods used in studying the dynamics and constitution of the Milky Way. Prerequisite, 101 and Mathematics 202. (Not given in 1960-61.) *Miss Hill*

303 (1). DIFFERENTIAL EQUATIONS (3 hrs.)

For description and prerequisite, see Mathematics 303.

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

The major in astronomy is based upon at least 18 hours of astronomy, Mathematics 303 and Physics 200, and 201, and normally includes some grade III

* Offered in alternate years.

work in physics. Six hours of astronomy and six hours of mathematics should ordinarily be completed by the end of the sophomore year.

Related or supplementary courses for the major may be elected in the departments of Mathematics and Physics, and may also include Geology 101 and Interdepartmental 218.

Students considering graduate work in astronomy are urged to acquire a reading knowledge of French, and Russian or German.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

Professors: ERNEST RENÉ LACHEMAN, B.D., PH.D.; HERBERT MORRISON GALE,[1] S.T.B., PH.D.; FRED DENBEAUX, B.D., S.T.M. (Chairman); MARY LUCETTA MOWRY, B.D., PH.D.

Assistant Professor: CHARLES ARTHUR MANN HALL, B.D.

Instructors: ERICH W. GRITSCH, S.T.M., PH.D.; ROGER ALAN JOHNSON, B.D.; BENJAMIN CHARLES MILNER, JR., B.D., M.A.; WAYNE GILBERT ROLLINS, B.D., PH.D.

Lecturer: HELEN IRENE MILTON, S.T.B., M.TH.

The requirement in Biblical history is met by course 104. Students with a knowledge of Greek may substitute course 210 for the second semester of 104.

104. STUDIES IN THE OLD AND NEW TESTAMENTS (6 hrs.)

Basic material: selected parts of the Old Testament; the Gospels of Matthew, Mark, and Luke. Aim: to acquire a knowledge of these materials, of their historical-critical analysis, of the rise of the Hebrew-Christian tradition and the relevance of this tradition to the individual and society. Required of sophomores except as indicated above. *The Staff*

203. ELEMENTARY HEBREW (6 hrs.)

The elements of Biblical Hebrew grammar and syntax, with practice in translation and the memorizing of a vocabulary. Readings of selections from the Old Testament. Open to juniors and seniors by permission. *Mr. Lacheman*

204 (1), (2). The BEGINNINGS OF CHRISTIANITY (3 hrs.)

A course designed to enable those students who have already studied the Synoptic Gospels in 104 to continue their study of the New Testament and to see Christianity in contact with the life of the Graeco-Roman world. The rise and earliest development of the Christian religion. Emphasis upon the thought of Paul and of the Fourth Gospel. Prerequisite, 104 or 210. *Miss Mowry*

206 (1). FURTHER STUDIES IN THE OLD TESTAMENT (3 hrs.)

Detailed work on selected portions of the Old Testament, with emphasis on historical, literary, and theological method. Prerequisite, 104 or 210. *Mr. Lacheman*

207. HISTORY OF RELIGIONS (6 hrs.)

After a brief examination of primitive and classical religions, major attention devoted to Islam, Hinduism, Buddhism and the religions of China and Japan. The history and development of institutions, cultic practices, scriptures and theologies investigated with readings in primary sources. Prerequisite, 104 or 210. *Miss Mowry*

[1] Absent on leave.

208 (1). Survey of the Application of Christian Ethics to Social Problems (3 hrs.)

A study of the historical and theological resources of the Judeo-Christian heritage for making concrete ethical decisions. Special consideration of contemporary problems of church and state, of social and racial groups, and of the family. Open to juniors and seniors who have taken or are taking Economics 101, Political Science 100, Sociology 102, or any course in medieval or modern history. *Mr. Hall*

210 (2). The First Three Gospels in Greek (3 hrs.)

Same material as the second semester of 104, planned for those students who, in fulfilling the Biblical history requirement, prefer to study the Gospels in Greek rather than in English translation. Open to students who have taken the first semester of 104 and have taken or are taking a grade II Greek course. Students choosing this way of fulfilling the requirement in Biblical history may postpone the work until their junior year without special permission. *Miss Milton*

213 (2). Judaism from Philo to Spinoza (3 hrs.)

The history of Judaism in its relation to the Graeco-Roman world, Christendom and Islam. Reading (in translation) of significant portions of Talmudic, Midrashic, Poetic, and speculative literatures. Prerequisite, 104 or 210. *Mr. Lacheman*

216 (1). History of Christian Thought (3 hrs.)

A survey of the interaction of the Biblical world view with classical culture and the consequent emergence of specifically Christian thought. The Church Fathers, the theology of the Creeds, Augustine, and medieval theology. Prerequisite, 104 or 210. *Mr. Denbeaux*

217 (2). History of Christian Thought (3 hrs.)

The Reformation and the modern world. Studies in the religious thought of the 16th and 19th centuries, primarily. The origin and development of Protestantism, the Episcopal tradition, and the reformation of Roman Catholicism. The 19th century and the emergence of modern theology as influenced by Kierkegaard, Darwin, Marx, Dostoyevsky, and Freud. Prerequisite, 104 or 210. *Mr. Denbeaux*

218 (2). History of Christian Thought in America (3 hrs.)

The history of religion in the United States. The continuing encounter between European theological and ecclesiastical traditions and the developing American culture. Examination of this process in major thinkers from Jonathan Edwards through Reinhold Niebuhr and Paul Tillich. Prerequisite, 104 or 210. *Mr. Hall*

301 (2).* Seminar in Mediterranean Religions (3 hrs.)

Studies in Babylonian, Greek, and Roman theology. Prerequisite, 206. *Mr. Lacheman*

305 (2). Studies in Contemporary Theology (3 hrs.)

An examination of the interaction of theology and secular culture as seen

* Offered in alternate years.

through the thought of such figures as Schweitzer, Barth, Niebuhr, Bultmann, Tillich. Prerequisite or corequisite, two seminars within the department.

The Staff

306 (1).* SEMINAR IN THE OLD TESTAMENT (3 hrs.)

Systematic study of important religious ideas of the Old Testament. Prerequisite, 206. (Not offered in 1960-61.) *Mr. Lacheman*

307 (1), (2). SEMINAR IN THE NEW TESTAMENT (3 hrs.)

The emergence of New Testament literature in the light of issues confronting the early Christian community. An intensive study of the Gospels and their impact on the growing church. Prerequisite, 204.

Mr. Rollins

310 (1), (2). SEMINAR. STUDIES IN HISTORICAL THEOLOGY (3 hrs.)

An examination of the distinctive content and form of theological language. A classical theologian to be selected. Prerequisite or corequisite, 216.

Mr. Denbeaux, Mr. Gritsch

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

Considerable freedom is possible within the major. At the same time, in order to provide cultural scope and to create the proper perspectives of criticism, the department places particular emphasis upon three areas of study: (1) Old Testament, (2) New Testament, (3) The History of Christian Thought. It is strongly recommended that the program for the major should include three hours of grade II work in each of these areas.

Students interested in the original language of the New Testament are encouraged to confer with the Greek Department.

PLACEMENT AND EXEMPTION EXAMINATIONS

The requirement in Biblical history may be met in some cases by the passing of an exemption examination. Exemption, when granted, will permit election of grade II courses in the department.

BOTANY AND BACTERIOLOGY

Professors: HARRIET BALDWIN CREIGHTON, PH.D. (Chairman); DELAPHINE GRACE ROSA WYCKOFF, PH.D.
Assistant Professor: EMANUEL DAVID RUDOLPH, PH.D.
Instructor: DERRY DELOS KOOB, PH.D.

Custodian: FRANCES KNIBBS FOLSOM

101. GENERAL PLANT SCIENCE (6 hrs.)

A study of plant science presenting the principles of biology and emphasizing the importance of plants in our economic and social life. Topics considered: growth and development of flowering plants; plant nutrition and its relation to animal and human nutrition; heredity and plant breeding; bacteria

* Offered in alternate years.

and other microorganisms; soil; forest and water resources; utilization of plant products in industry. Practice in growing plants in the greenhouses and gardens. Open to all undergraduates except those who have taken Interdepartmental 103. Four periods, one of lecture, three of discussion and work in laboratory, greenhouse, and field. *The Staff*

103. AN INTRODUCTORY COURSE IN BIOLOGY (6 hrs.)

For description and prerequisite, see Interdepartmental 103.

201 (1). LANDSCAPE GARDENING (3 hrs.)

A study of cultivated plants with emphasis on their use in landscape gardening. Practice in applying the principles of design to gardens and to home and community plantings. Open to students who have taken 101 or 103 and to juniors and seniors without prerequisite. Counts as a non-laboratory science to meet part of the distribution requirement in Group III. Four periods. *Miss Creighton*

202 (1). PLANT BIOLOGY (3 hrs.)

Growth and behavior of plants in relation to their natural environment. Studies of plant communities in the field, and experiments in the greenhouse and laboratory. Prerequisite, same as for 201. Four periods of lecture and laboratory. *Mr. Rudolph*

204 (2). BASIC HORTICULTURE (3 hrs.)

The fundamentals of cultivation and propagation of house and garden plants and the methods of control of plant pests and diseases. Prerequisite, same as for 201. Four periods, two of lecture and discussion and two of practice in greenhouse and laboratory. *Miss Creighton, Mr. Rudolph*

205 (2). MICROBIOLOGY (3 hrs.)

Yeasts, molds, and bacteria in relation to man's physical and economic welfare, their importance in daily living, agriculture, industry, public health, and disease control. Prerequisite, six hours in Group III. Two periods of lecture, discussion, and demonstration. May be taken either (a) as a non-laboratory science with special readings and papers required, or (b) as a laboratory science with two periods of laboratory work. *Mrs. Wyckoff*

207 (1). PLANT RESOURCES (3 hrs.)

A study of the agricultural and forest resources of the world with emphasis on those of the United States; the scientific basis for the production of plants for foods, fibers and the raw materials of industry; the influences of soil, climatic and biological factors on the growth of economically important plants. Prerequisite, same as for 201. Counts as a non-laboratory science to meet part of the Group III distribution requirement. Two periods. (Not given in 1960-61.) *The Staff*

302 (1). PLANT STRUCTURE (3 hrs.)

A study of cells, tissues, and organs, their functions and roles in the development of form in the organism. Practice in the preparation of plant tissues for microscopic study. Prerequisite, 12 hours in the department. Four periods of lecture, discussion and laboratory. *Mr. Rudolph*

303 (2). GENETICS (3 hrs.)

A study of inheritance, its cellular basis, the methods by which knowledge of heredity is obtained, and the application of this knowledge to biological problems. Laboratory experimentation with plants. Open to juniors and seniors who have taken six hours in the department and six additional hours in botany or zoology. Four periods of lecture, discussion and laboratory.

Miss Creighton

304 (2). PLANT DISEASES (3 hrs.)

Pathogenic fungi, their structure, their physiological processes, and their effects on ornamental and economically important plants. Practice in the cultivation of fungi and methods of combating plant diseases. Prerequisite, same as for 302. Four periods of lecture and of laboratory, field, or greenhouse. (Not offered in 1960-61.) *Mr. Rudolph*

306. PHYSIOLOGY (6 hrs.)

First semester: Nature of protoplasm; processes of plant cells such as photosynthesis, nutrition and respiration. Second semester: physiological processes in growth and development of green plants; plant hormones, photoperiodism. Open to juniors and seniors who have taken six hours of grade II in the department and who have taken or are taking six hours of chemistry or physics. Four periods of lecture, discussion and laboratory. (Not offered in 1960-61.) *Mr. Rudolph*

308. GENERAL BACTERIOLOGY (6 hrs.)

Structure and physiological processes of bacteria, their responses to the environment, and their relation to soil fertility, industrial processes, water and milk supplies, food preservation, disease, and immunity. Practice in bacteriological methods and techniques. Open to students who have taken six hours of chemistry or physical science and either six hours of botany, zoology, or biology, or a second course in chemistry. Five periods of lecture and laboratory including one field trip. (Not given in 1960-61.) *Mrs. Wyckoff*

312 (1). ADVANCED BACTERIOLOGY AND IMMUNOLOGY (3 hrs.)

Systematic study of bacteria, including serological relationships and roles in disease and immunity. Consideration of recent developments in bacteriology. Practice in bacteriological and serological techniques and procedures. Prerequisite, 308. Four periods of lecture and laboratory. *Mrs. Wyckoff*

315 (2). VIROLOGY (3 hrs.)

The nature of viruses and their interaction with plant, animal, and bacterial hosts. Open to seniors who have taken six hours from the following group of courses: 205, 304, 308, 312. Two periods. *Mrs. Wyckoff*

322. SEMINAR (3 or 6 hrs.)

A field of botany or bacteriology scrutinized from standpoints of modern achievement, methods of investigation, and the theories and reasoning involved in reaching present-day conclusions. Open to graduate students and to seniors by permission. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

The combination of courses for the major will depend upon the student's particular objectives—general plant science, horticulture and landscape gardening, or bacteriology and medical laboratory work.

Courses in chemistry, geology, geography, physics and zoology are suggested for related work. Art 309 may be considered a related course in certain programs.

The department will admit properly qualified freshmen and sophomores to 202, 204, and 205 without examination but by special permission after consultation with the chairman of the department.

SCHOLARSHIP

At the Marine Biological Laboratory at Woods Hole (or at a biological field station approved by the student's major department), a scholarship is open to undergraduates. Students should consult the Chairman of the Department before February 15.

CHEMISTRY

Professors: PHILIPPA GARTH GILCHRIST, PH.D.; MARGARET KINGMAN SEIKEL, PH.D. (Chairman)

Associate Professor: JEAN VECHTE CRAWFORD, PH.D.

Assistant Professor: ELEANOR RUDD WEBSTER,[1] PH.D.

Instructor: MARGARET ELIZABETH LANG, B.A.

Lecturer: ELIZABETH JANE ROCK, PH.D.

Assistants: MONIQUE GHOSEZ, AGRÉGÉE DE L'ENSEIGNEMENT; ADELE CAVANAGH FLINT, M.A.

Graduate Assistants: SU-CHU WANG, B.S.; HADWIG EDITH FRAUKE GOFFERJE, B.S.; JYUNKO YOKOI, B.S.

Custodian: EMILY MAY HOPKINS, M.A.; *Assistant Custodian:* MARION LOCKE COPELAND, B.S.

101. ELEMENTARY CHEMISTRY (6 hrs.)

A study of the structure and properties of matter and of the fundamental laws and theories of chemistry. Open to students who do not present chemistry for admission. Two periods of lecture and discussion and one three-period laboratory appointment. *Miss Gilchrist*

104. GENERAL CHEMISTRY (6 hrs.)

Study of atomic structure, the chemical bond, and the fundamental chemical principles underlying the reactions of inorganic and organic compounds. Open to students who offer chemistry for admission. Two periods of lecture and one three-period laboratory appointment. *Miss Crawford, Miss Rock*

106. AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 106. This course will, by special arrangement, serve as prerequisite for grade II courses in chemistry.

203 (1). IDENTIFICATION OF ELEMENTS AND COMPOUNDS (3 hrs.)

Physical and chemical properties of some important elements and compounds, both inorganic and organic; emphasis on the relationship between structure

[1] Absent on leave.

and properties. Laboratory work: identification of anions, cations and common classes of organic substances. Prerequisite, 101 or, by special arrangement, 106. Open to qualified freshmen by permission. Two periods of lecture and one three-period laboratory appointment. *Miss Crawford*

204 (2). ELEMENTARY QUANTITATIVE ANALYSIS (3 hrs.)

The fundamental theory and practice of quantitative analysis applied to both inorganic and organic compounds. Prerequisite, 104 or 203. One period of lecture and two three-period laboratory appointments. *Miss Crawford*

205 (1). ORGANIC CHEMISTRY (3 hrs.)

Systematic study of the fundamental classes of organic compounds with emphasis on their interconversion. Prerequisite, 104 or 203. Two periods of lecture and one three-period laboratory appointment. *Miss Seikel*

300 (2). ORGANIC CHEMISTRY (3 hrs.)

Mechanisms of organic reactions. Laboratory work: synthesis and identification of organic compounds. Prerequisite, 205. Two periods of lecture and one three-period laboratory appointment. *Miss Seikel*

304 (1). GENERAL QUANTITATIVE ANALYSIS (3 hrs.)

Subject matter similar to that of 204 but presented from a more advanced point of view. Prerequisite, 205. One period of lecture and two three-period laboratory appointments. *Miss Lang*

305 (1). PHYSICAL CHEMISTRY (3 hrs.)

The laws and theories of matter in its various states of aggregation and chemical thermodynamics. Prerequisite, 204 and 205, or 304; Physics 101, 104, or 105; Mathematics 202 or, by special arrangement, 106 or 107. Two periods of lecture and one three-period laboratory appointment. *Miss Rock*

306 (2). PHYSICAL CHEMISTRY (3 hrs.)

A continuation of 305 including chemical equilibrium, reaction velocity, electrochemistry, and theories of atomic and molecular structure. Prerequisite, 305. Two periods of lecture and one three-period laboratory appointment. *Miss Rock*

307 (2). INORGANIC CHEMISTRY (3 hrs.)

An advanced study of a variety of inorganic substances and an interpretation of their properties in the light of recent theories of atomic and molecular structure. Prerequisite, 204 and 205, or 304. *Miss Lang*

308 (1). BIOCHEMISTRY (3 hrs.)

A study of the chemistry and structure of proteins with emphasis on the properties and reactions of living matter. Prerequisite, same as for 307. Two periods of lecture and one three-period laboratory appointment. *Miss Gilchrist*

309 (2). BIOCHEMISTRY (3 hrs.)

The chemistry of the more important classes of carbohydrates and lipids considered especially in terms of biological functioning. Prerequisite, 308. Two periods of lecture and one three-period laboratory appointment. *Miss Gilchrist*

312 (1). USE OF THE LITERATURE OF CHEMISTRY (1 hr.)

An introduction to the published source materials of chemistry and to their use in advanced work and in research. Prerequisite, same as for 307.

Miss Lang

313 (1). ADVANCED ORGANIC CHEMISTRY (3 hrs.)

A study of an advanced topic in organic chemistry such as stereochemistry, heterocyclic chemistry, reaction mechanisms, or the chemistry of natural products. Ordinarily a different subject each year. Prerequisite, 204 or 304, and 300. Two periods of lecture and discussion. *Miss Seikel*

314 (2). INSTRUMENTAL ANALYSIS (3 hrs.)

Principles and practice of instrumental methods such as colorimetry, spectrophotometry and electroanalysis. Open to students who have had or are taking college physics and who have had 204 and 205, or 304. One period of lecture and two three-period laboratory appointments. *Miss Lang*

315 (2). ADVANCED ORGANIC LABORATORY (3 hrs.)

Synthesis and characterization of organic compounds; use of vacuum, chromatographic and spectral techniques. Prerequisite, same as for 313. One period of lecture and two three-period laboratory appointments. *Miss Seikel*

316 (1). CHEMICAL THEORY (3 hrs.)

Selected topics in the development of modern chemistry chosen to illustrate major conceptual advances in one or more branches of the field. Subject to be announced. Open by permission to juniors and seniors. (Not offered in 1960-61.)

320. SEMINAR (2 hrs.)

Recent developments in chemistry. Inorganic, organic, physical and biochemistry studied in successive semesters. Open to graduate students. May be taken for two, three or four semesters and may be begun either semester.

The Staff

350. RESEARCH OR INDEPENDENT STUDY (3 to 6 hrs.)

Open by permission to students who have taken at least 18 hours in chemistry.

DIRECTIONS FOR ELECTION

All students majoring in chemistry are required to complete 204 or 304, 205 and 300, 305 and 306, and are advised to elect 307. Any other courses in the department may be added to complete the 24-hour major. A year of college physics and one year of college mathematics, which must include calculus, are required. In addition students are advised to acquire a reading knowledge of German and of either French or Russian.

Premedical students are referred to the requirements as given on page 31.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the Chemistry Department.

PLACEMENT AND EXEMPTION EXAMINATIONS

Unusually well-qualified students may apply for an examination covering the

year's work in Chemistry 101. (A college textbook of general chemistry should be used in preparation for this examination.) The satisfactory completion of this examination will be accepted as the equivalent of Chemistry 101 as a prerequisite for advanced work in the department.

CLASSICAL ARCHEOLOGY

Director: DOROTHY MAE ROBATHAN, *Professor of Latin*

An interdepartmental major in Classical Archeology gives opportunity for a study of classical civilization through its art, literature, and history, with emphasis on either the Greek or Roman period.

The field of concentration (42 hours) should normally include ancient history (6 hours); art (12 to 15 hours); Greek or Latin language and literature (18 to 21 hours); independent study of an archeological topic correlating work in art and literature (3 to 6 hours). In addition to the work elected in either Greek or Latin, the candidate must give evidence of a working knowledge of the second language.

ECONOMICS

Professors: LUCY WINSOR KILLOUGH, PH.D.; RICHARD VERNON CLEMENCE, PH.D. (Chairman)
Associate Professor: CAROLYN SHAW BELL,[1] PH.D.
Assistant Professor: FREDERIC NORBERT FIRESTONE, PH.D.
Instructors: MARSHALL IRWIN GOLDMAN, M.A.; JAN PARKER, M.A.; HAZEL JEAN WALDROP, PH.D.

101. SURVEY OF MODERN ECONOMICS (6 hrs.)

An introduction to the major principles and problems of economic science—the study of the ways people make a living—with special reference to the United States. Organization and operation of American business; individual and family income; money and banking; prosperity and depression; nature and causes of inflation; labor-management relations; government taxing and spending; foreign trade and foreign aid; comparisons of the American economy with others. Open to all undergraduates. *The Staff*

201 (1). ECONOMIC ANALYSIS (3 hrs.)

The basic techniques of modern analysis applicable to problems of income, output, employment, and prices. Fundamentals of economic theory and method. Prerequisite, 101. *Mr. Clemence*

204 (2). ECONOMIC HISTORY OF THE UNITED STATES (3 hrs.)

Economic change in America: the transformation of an agricultural economy; the course of the Industrial Revolution; role of public and private institutions in the process of economic change. Open to sophomores, juniors, and seniors who have taken or are taking 101. *Miss Parker*

205 (1). CORPORATIONS AND BUSINESS ENTERPRISE (3 hrs.)

The development of the modern corporation, and its place in the economy. Corporate organization and management; corporate securities; the stock market;

[1] Absent on leave.

investment and speculation; relations of the corporation with employees, customers, owners, and government agencies. Prerequisite, same as for 204.
Mr. Goldman

207 (2). LABOR ECONOMICS (3 hrs.)

Activities and policies relating to American labor. Growth and composition of the labor force. Labor unions and collective bargaining. Public policy; social legislation. Prerequisite, same as for 204. *Mr. Firestone*

210. FINANCIAL ORGANIZATION OF SOCIETY (6 hrs.)

Money, credit, general price levels, and business cycles. Emphasis on monetary systems and current monetary problems. The work of commercial banks and the functioning of the Federal Reserve system. Business cycles dealt with historically and theoretically, and methods of stabilization analyzed. Prerequisite, 101. *Mr. Clemence, Miss Parker*

211 (1), (2). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS (3 hrs.)

A non-mathematical course in statistical techniques used in the social sciences. Methods of collecting, presenting, analyzing, and interpreting numerical data. Laboratory work with calculating machines. Prerequisite, same as for 204. (For mathematical course, see Mathematics 205.) *Mr. Firestone, Miss Parker*

212 (1). ECONOMICS OF ACCOUNTING (3 hrs.)

A survey of the fundamental principles of accounting; problems in accounting technique. Emphasis on the relation of accounting theory and practice to economic theory and contemporary economic problems. Aim: to enable the student to interpret and utilize accounting data in other fields of economics and in the analysis of public policy. Prerequisite, same as for 204. *Miss Waldrop*

301 (2). COMPARATIVE ECONOMIC SYSTEMS (3 hrs.)

Economic processes and goals of alternative types of economic systems. Study of functioning economies, illustrative of capitalism, socialism, communism, fascism. Open to juniors and seniors who have taken 101 and have taken or are taking a grade II course in economics, history, political science, or sociology. *Mr. Goldman*

302 (1). ECONOMIC DEVELOPMENT (3 hrs.)

Theories of economic development, and their application to the growth of modern nations. Comparative rates of growth as related to economic institutions and policies. Special problems of the less developed countries, and their significance to the United States. Open to juniors and seniors who have taken 101 and six additional hours in the department. *Mr. Goldman*

305 (2). THE STRUCTURE OF AMERICAN INDUSTRY (3 hrs.)

The organization and development of representative industries in agricultural and industrial production and distribution. Resources and production, markets and prices. Economic aspects of public policy in the regulation of business. Prerequisite, 201 or 205. *Miss Waldrop*

307 (2). THE ECONOMICS OF CONSUMPTION (3 hrs.)

Analysis of wants and choices of consumers; income distribution and con-

sumption patterns; marketing in its relation to consumers; legislative influences; the impact of consumption decisions on the economy. Open to students who have taken or are taking 211. *Miss Waldrop*

310 (1). PUBLIC FINANCE (3 hrs.)

Principles and problems of government revenues, expenditures, and debts. Fiscal policy and the national income; the shifting and incidence of taxation. Special emphasis on the tax system of the United States. Open to juniors and seniors who have taken 101, and who have taken or are taking a grade II course in economics or political science. *Mrs. Killough*

312 (2).° ECONOMIC STATISTICS (3 hrs.)

Further development of techniques studied in 211. Investigation of an economic problem susceptible of statistical analysis. Design of the project, collection and tabulation of data, analysis and report of results. Open to juniors and seniors who have taken 211 or, by permission, to students who have taken Mathematics 205, and have taken or are taking any other course of grade II in economics. *Mr. Firestone*

313 (2). SEMINAR. SELECTED TOPICS IN ECONOMIC MOVEMENTS AND THEORIES (3 hrs.)

Subject for 1960-61: Research methods and techniques. Open by permission to juniors and seniors. *Mrs. Killough*

314 (2). INTERNATIONAL ECONOMICS (3 hrs.)

Industrial foundations of international trade. Theories and institutions of international trade and investment. The international economic position of countries in different stages of economic growth. Open to juniors and seniors who have taken 101 and are majoring in economics, geography, history or political science. *Mrs. Killough*

315 (2).° HISTORY OF ECONOMIC THOUGHT (3 hrs.)

The development of economic thought from ancient to modern times. A brief survey of early economic ideas, followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day. Prerequisite, 201. (Not offered in 1960-61).

316 (1).° MODERN ECONOMIC THOUGHT (3 hrs.)

Recent developments in economic thought, and their significance for theory and policy. Reading and discussion of contemporary economic literature. Prerequisite, 201. *Mr. Firestone*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

Students proposing to elect courses other than 101 should consult a member of the department before making final decisions concerning their programs.

° Offered in alternate years.

Students wishing to emphasize international relations in their field of concentration should consult the chairman of the department as early as possible.

PLACEMENT AND EXEMPTION EXAMINATIONS

Examinations for exemption from Economics 101, and for advanced standing, are offered to qualified students.

EDUCATION

Associate Professor: MARY EWEN ULICH, ED.D. (Chairman)

Lecturers: LOUISE CATHERINE HEUSER KELLER, ED.M.; ESTHER PASTENE EDWARDS,[5] M.A.

101 (1), (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)
For description and prerequisite, see Philosophy 101.

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)
For description and prerequisite, see Psychology 102.

104 (2). INTRODUCTION TO MORAL PHILOSOPHY (3 hrs.)
For description and prerequisite, see Philosophy 104.

200 (1), (2). PHILOSOPHY OF EDUCATION (3 hrs.)
The role of philosophical thought and analysis in the clarification of major problems of education. Discussion of the aims of schooling, and the relation of knowledge to individual and social values. Open to freshmen in the second semester who have taken or are taking a course in philosophy, psychology, or sociology, to all sophomores who meet the above prerequisite, and to juniors and seniors without prerequisite. *Mrs. Ulich*

201 (2). HISTORY OF EDUCATIONAL IDEAS (3 hrs.)
Study of the interrelationship between educational ideas and ideals and their historical setting, their influence on the educational process, and their contribution to the general development of culture. Prerequisite, 200.
Mrs. Ulich

202 (2). THE ELEMENTARY SCHOOL (3 hrs.)
The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in schools required. Prerequisite, 200. *Miss Edwards*

205 (1). THE EDUCATION OF THE YOUNG CHILD (3 hrs.)
A survey of the theory and practice of early childhood education, including the study of young children as members of society who are responding to educational influences. Four hours a week of observation and participation at the Page Memorial School. Open to juniors and seniors who have taken 200 and a course in psychology. *Mrs. Keller*

[5] Appointed for the second semester only.

206 (2). THE EDUCATION OF THE YOUNG CHILD (3 hrs.)

Further studies in early childhood education. Advanced participation at the Page School. Prerequisite, 205. *Mrs. Keller*

207 (1), (2). CHILD PSYCHOLOGY (3 hrs.)

For description and prerequisite, see Psychology 207.

219 (2). PSYCHOLOGY OF LEARNING (3 hrs.)

For description and prerequisite, see Psychology 219.

300 (1). SECONDARY EDUCATION (3 hrs.)

The aims, organization, and administration of secondary schools considered in relation to their social, political, and economic environments. Criteria for evaluating curricula and classroom problems included. Observation in schools required. Prerequisite 200 and a course in psychology. *Mrs. Ulich*

302 (2). PRINCIPLES OF TEACHING (3 hrs.)

Study of teaching objectives, curriculum planning, classroom procedures. Review of learning theories. Class divided into groups for six weeks of intensive work in the methods and materials of a specific subject matter; for example, English, foreign language, social science, science. Open by permission to seniors who have taken 300. *The Staff*

307 (1). PSYCHOLOGY OF THE DEVELOPMENT OF PERSONALITY (3 hrs.)

For description and prerequisite, see Psychology 307.

310 (2). SEMINAR (3 hrs.)

An intensive and critical examination of the educational theories of several selected writers. Special attention given to the relevance of their ideas to the problems of American education. Open to seniors by permission. (Not given in 1960-61.) *Mrs. Ulich*

DIRECTIONS FOR ELECTION

Students who intend to teach should (in their sophomore year if possible) consult the department concerning the various city and state requirements for the certificate to teach and the appropriate undergraduate preparation for fifth year and paid intern programs which combine professional study with further study in teaching fields and lead to Masters degrees honored by all states. (See also General Information, page 31.)

Although the College does not offer a major in education, students may take up to eighteen hours, which is the required number in many states. They may elect also the courses listed above in philosophy and psychology which are important in the preparation of teachers. There are ample opportunities for observation in neighboring school systems.

English 312 is pertinent for those planning to teach English.

Additional courses which may be helpful in preparation for teaching are: History 221, 222, 310; Psychology 313, 314, 317, 325; Sociology 104, 222; Speech 102, 202.

ANNE L. PAGE MEMORIAL SCHOOL

Director: LOUISE CATHERINE HEUSER KELLER, ED.M.

The Anne L. Page Memorial School for children from three to five years of age is the college laboratory school and as such it is an integral part of the educational program of the College. It is a center for child study, observation, and participation for students from all departments of the College, and it is especially helpful to students working in the departments of Education and of Psychology.

ENGLISH

Professors: ELLA KEATS WHITING, PH.D.; GRACE ETHEL HAWK, B.LITT., OXON.; WALTER EDWARDS HOUGHTON, PH.D.; CHARLES WILLIAM KERBY-MILLER, PH.D.; MARY RUTH MICHAEL, PH.D.

Associate Professors: VIRGINIA FLEMING PRETTYMAN, PH.D.; HELEN STORM CORSA,[1] PH.D.; KATHERINE LEVER, PH.D. (Chairman); PATRICK FRANCIS QUINN, PH.D.; BEVERLY JOSEPH LAYMAN,[1] PH.D.

Assistant Professors: DAVID RUSSELL FERRY, PH.D.; ROBERT ERWIN GARIS,[1] PH.D.; PHILIP BOOTH, M.A.; NAOMI JUNE DIAMOND, PH.D.

Instructors: MARTHA ALDEN CRAIG, PH.D.; MARTIN BURGESS GREEN, PH.D.; MARY ANN YOUNGREN, M.A.; JOHN HENRY HAGAN, JR., PH.D.; JOAN EDNA HARTMAN, PH.D.; PATRICIA MEYER SPACKS, PH.D.; DAVID MASEFIELD FANGER, M.A.; MARY LYON MANSON, PH.D.; EDWARD MICHAEL WHITE, PH.D.

Lecturers: SYLVIA LEAH BERKMAN,[4] PH.D.; ENID JANE WOOD NICOL, M.A.; MAY SARTON[5]

100. LANGUAGE, LITERATURE, AND THE INDIVIDUAL (6 hrs.)

The reading of non-fiction, novels, short stories, poetry, and drama chosen from the best English and American literature; writing directed towards the evaluation of personal experience, of the literature studied, and of non-literary source materials; the exploration of the possibilities of the English language. Training in the use of the library and documentation. Fortnightly themes or their equivalent. Regularly scheduled individual conferences. Required of freshmen. This course may not count towards a major in English. *The Staff*

106. LITERATURE IN THREE AGES: RENAISSANCE, NEO-CLASSIC, AND ROMANTIC (6 hrs.)

An introduction to literary history and critical analysis through the reading of major texts from Shakespeare to Wordsworth. Open to all undergraduates. *The Staff*

107.° INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

For description and prerequisite, see Interdepartmental 107.

Courses 200-203 inclusive are planned as *workshops in writing,* with informal group meetings and frequent individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301-305 inclusive continue the same plan at an advanced level.

[1] Absent on leave.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.
° Counts as related work but not as part of a major in English. Acceptable as a prerequisite for grade II literature courses.

200 (1), (2). SHORT NARRATIVE AND DRAMA (3 hrs.)

Particularly the short story and the one-act play. Prerequisite, 100. Not open to students who have taken three semesters of grade II work in writing or who are taking another writing course.

Miss Berkman, Mr. Green, Mrs. Spacks, Miss Sarton

201 (1), (2). THE CRITICAL ESSAY (3 hrs.)

Training in the organization and presentation of literary analyses and judgments. Reading of some of the best contemporary criticism. Prerequisite or corequisite, 106. *Mr. Kerby-Miller, Miss Prettyman, Miss Craig*

202 (1), (2). POETRY (3 hrs.)

The writing of short lyrics and study of the art and craft of poetry. Open to juniors and seniors, and by permission to sophomores. *Mr. Booth*

203 (1), (2). EXPOSITORY AND JOURNALISTIC WRITING (3 hrs.)

The writing of reviews, reports, news stories, and magazine articles. Prerequisite, same as for 200. *Mr. Green, Mr. Hagan*

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206. LITERATURE IN THREE AGES: RENAISSANCE, NEO-CLASSIC, AND ROMANTIC (6 hrs.)

Content same as in 106, taught at more advanced level. Open to juniors and seniors who have not taken 106. *Miss Hawk*

210 (1), (2). MODERN POETRY (3 hrs.)

English and American poetry and poets, recent and contemporary. Open to sophomores who have taken 106 or Interdepartmental 107, and to juniors and seniors without prerequisite. *Mr. Ferry, Mr. Booth, Miss Craig*

211 (1). RENAISSANCE DRAMA (3 hrs.)

A critical and historical study of poetic drama in the period of its greatest flowering. Emphasis on the comedies of Jonson and the tragedies of Marlowe, Webster, Tourneur, Chapman, and Middleton. Prerequisite, same as for 210. (Not offered in 1960-61.)

212 (1), (2). MODERN DRAMA (3 hrs.)

The history of the drama of England and America from 1879 to our own day, with study of the influence of Ibsen and other continental dramatists. Prerequisite, same as for 210. *Miss Berkman, Mrs. Spacks*

215 (2). INTRODUCTION TO SHAKESPEARE (3 hrs.)

The study of a number of representative plays, with emphasis on their dramatic and poetic aspects. Open to juniors and seniors only. Primarily for nonmajors. *Miss Prettyman*

217 (1), (2). MILTON (3 hrs.)

A critical study of Milton as a master of lyric, epic, and dramatic poetry, and as a writer of notable prose. Prerequisite, same as for 210. *Miss Hawk*

220 (1), (2). CHAUCER (3 hrs.)

A study of Chaucer's poetry, tracing the development of his art and showing

the relation of his work to the social and literary background of his time. Prerequisite, same as for 210. *Miss Lever, Miss Diamond*

223 (1). AMERICAN LITERATURE (3 hrs.)

The beginnings of American literature and the social conditions out of which it grew, followed by a consideration of American writers through Melville. Emphasis upon major figures. Prerequisite, same as for 210.

Mr. Quinn, Mr. Fanger

224 (2). AMERICAN LITERATURE (3 hrs.)

American writers from Whitman to the present time. Emphasis upon major figures. Prerequisite, 223. *Mr. Quinn, Mr. Fanger*

225. THE DEVELOPMENT OF THE ENGLISH NOVEL (6 hrs.)

The growth of the novel from its beginning in the 18th century until recent times. Concentration on a limited number of major novelists from Defoe to Faulkner, but with attention to other significant figures and to historical developments. Prerequisite, same as for 210. Not open to those who have taken 226. *Mr. Kerby-Miller*

226 (1), (2). THE ART OF THE NOVEL (3 hrs.)

Intensive critical study of fiction, with reading selected for the most part from modern English and American novels. Prerequisite, same as for 210. Not open to those who have taken 225.

Miss Lever, Mr. Ferry, Mr. Green, Miss Diamond, Mrs. Youngren, Mr. Hagan

230 (1), (2). EARLY ROMANTIC POETS (3 hrs.)

Intensive study of poems and critical writings of Blake, Wordsworth, and Coleridge. Prerequisite, same as for 210. *Mr. Houghton, Mr. Ferry*

231 (1), (2). LATER ROMANTIC POETS (3 hrs.)

The poetry and criticism of Byron, Shelley, and Keats. Prerequisite, same as for 210. *Mr. Houghton, Miss Prettyman*

Courses 301-305 inclusive are planned as *workshops in writing*, continuing the training of courses 200-203.

301 (1). THE SHORT STORY (3 hrs.)

Techniques of short-story writing, together with practice in critical evaluation of student work. Intensive reading of selected stories. Open to juniors and seniors who have taken one grade II workshop. *Miss Berkman*

304 (2). SEMINAR IN WRITING (3 hrs.)

Advanced course in the short story, with particular attention to the novella form, both in writing and in collateral reading. Prerequisite, 301. By permission this course may be followed by 350 work. *Miss Sarton*

305 (2). JOURNALISTIC WRITING (3 hrs.)

The magazine article and other types of expository and journalistic writing. Stress on original and effective methods of presentation and the development

of a finished expository style. Open to juniors and seniors who have taken one grade II workshop. (Not given in 1960-61.) *Mr. Kerby-Miller*

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307 (2). CRITICISM (3 hrs.)

A survey of some fundamental critical theories, from Aristotle to the present; their relation in historical context to continuing problems of interpretation and judgment; their application to specific literary works. Special attention to modern trends in criticism. Open to juniors and seniors who have taken or are taking six hours of grade II literature courses in the department and, by permission, to other specially qualified students. *Miss Prettyman*

308 (2). THE MIDDLE AGES AND RENAISSANCE IN ENGLAND (3 hrs.)

Permanence and change in some major literary forms from 1350 to 1600. Special attention given the religious and intellectual ferment of the sixteenth century. Reading, both intensive and extensive, to include (partly in modern versions) *Gawain and the Green Knight, Piers Plowman,* More, Sidney, Marlowe, and Spenser. Prerequisite, same as for 307. *Miss Michael*

309. SHAKESPEARE (6 hrs.)

Shakespeare as dramatist and poet, seen against the background of his age and its theatre. Intensive study of sixteen plays, and the reading of others. Open to juniors and seniors who have taken six hours of grade II literature courses in the department. Not open to students who have taken 215. *Miss Michael*

310 (1). POPE AND SWIFT (3 hrs.)

Pope and Swift considered as representative writers of neo-classicism and rationalism, and as masters of satire. Prerequisite, same as for 307. *Mr. Kerby-Miller*

311 (2). THE AGE OF JOHNSON (3 hrs.)

The second half of the 18th century studied as the height of the rationalistic period and the beginning of the romantic era. Special attention to Dr. Johnson and his more important contemporaries, Boswell, Goldsmith, Burke, Gray, Cowper, and Burns. Prerequisite, same as for 307. *Mr. Kerby-Miller*

312 (2). THE ENGLISH LANGUAGE (3 hrs.)

The origin and growth of the English language, studied as a basis for understanding its structure and the nature and use of words in common speech today and in contemporary literature. Prerequisite, same as for 307. *Miss Lever*

313 (2). THE AGE OF DRYDEN (3 hrs.)

The literature of the Restoration: drama, lyrics, and satire, with special emphasis on John Dryden. The development of the modern outlook as seen in literature and learning. The growth of journalism and middle class literature in the hands of Defoe, Addison, and Steele. Prerequisite, same as for 307. (Not offered in 1960-61.) *Mr. Kerby-Miller*

314 (1). VICTORIAN PROSE (3 hrs.)

The prose of Macaulay, Huxley, Carlyle, Mill, and Newman, studied with

special reference to Victorian conceptions of politics, science, religion, and the nature of man. Prerequisite, same as for 307. Open to non-majors by permission. *Mr. Houghton*

315 (2). VICTORIAN POETRY (3 hrs.)

The poetry of Tennyson, Browning, Arnold, and Clough. Prerequisite, 314, or either 230 or 231 and an additional three-hour grade II literature course. Open to other students by permission. *Mr. Houghton*

316 (1). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON (3 hrs.)

The stress and conflict of an age of transition, presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, and Taylor in prose. Brief study of Cavalier and religious poetry. Prerequisite, same as for 307. *Miss Hawk*

317 (1). AMERICAN LITERATURE (3 hrs.)

Topic for 1960-61: Prose and poetry of the American Renaissance (1845-55). Prerequisite, same as for 307. *Mr. Quinn*

318 (2). ADVANCED STUDIES IN THE NOVEL (3 hrs.)

Critical and aesthetic problems in the field of fiction, as seen in the work of two major writers. Prerequisite, same as for 307. *Mr. Kerby-Miller, Mr. Quinn*

321 (1). SEMINAR (3 hrs.)

Topic for 1960-61: The prose works of Matthew Arnold and Walter Pater. A study of their literary and philosophical ideas in relation to Victorian, Late Victorian, and Modern thought. Open, by application, to seniors who have taken six hours of grade III in literature, and to specially qualified juniors. *Mr. Houghton*

322 (2). SEMINAR (3 hrs.)

Topic for 1960-61: John Donne and some of his modern critics. A study of Donne in the light of critical evaluations, 1912 to the present. Prerequisite, same as for 321. *Miss Hawk*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

The above courses, with certain exceptions, may be elected to fulfill the distribution requirement in Group I. These exceptions are writing courses and 312.

Course 100 counts for the Bachelor of Arts degree but does not count toward the major.

For students interested in writing, a sequence of practice courses is provided, but no two writing courses may be taken simultaneously. Enrollment in writing workshops is, in general, limited to fifteen.

Full details about the purpose and design of the major program are available in the English Department office. The program in brief is as follows:

Course 106 is the basic course for the major and should be elected in the

freshman or sophomore year. Course 206 should be elected by juniors who decide late to major in English and it is open to other juniors and seniors.

Either Chaucer or Milton should be elected by sophomores who have taken 106 or by juniors. They should also elect at least one other grade II semester course in literature. One grade II writing workshop, though not required, is very strongly recommended.

Advanced work for English majors consists of a semester of varied forms of English literature studied in historical context, a year's study of Shakespeare's major plays, and a semester chosen from the other grade III courses.

Additional courses within the 42-hour limit may be freely elected in accordance with the student's interests.

In applying for enrollment in seminars or 350 work, students of at least B standing in the work of the department will have first consideration.

PLACEMENT AND EXEMPTION EXAMINATIONS

Freshmen who secure the permission of the chairman may qualify for entrance to grade II work in literature by passing an exemption examination covering the material of course 106.

RELATED COURSES

Knowledge of English history, of the course of European thought, and of at least one foreign literature at an advanced level (preferably in the original language) is of great value to the student of English. See, for example, History 103, 213, 217, 310; Philosophy 203 and 214; grade II and grade III courses in foreign literatures; see also Greek 104 and 203; Italian 103; Latin 105; Interdepartmental 107, 201 and 202.

For opportunities to specialize in certain periods (*e.g.* the Middle Ages, the Renaissance), see courses in the departments of Art, History, other languages, Philosophy, *etc.* This correlation should be planned as early as possible.

FRENCH

Professors: EDITH MELCHER, PH.D.; GERMAINE LAFEUILLE, AGRÉGÉE DES LETTRES, PH.D. (Chairman)

Associate Professor: RENÉ MARIE GALAND, PH.D.

Assistant Professors: CARLO ROGER FRANÇOIS, PH.D.; GEORGETTE MARIE PRADAL, DOCTEUR DE L'UNIVERSITÉ DE TOULOUSE; LEO BERSANI, PH.D.; FLORENCE TURNER MCCULLOCH, PH.D.

Instructors: PATRICIA WEED, M.A.; GENEVIÈVE DE BIDART MERRILL, M.A.; MARIANNA LOUISE CARLSON, PH.D.; CHRISTIANE CONVERS, AGRÉGÉE D'ANGLAIS; MONIQUE JONQUET, DIPL. E.S.

Lecturers: JEANETTE MCPHERRIN, M.A.; ANNE CUTTING JONES, PH.D.; MARCELLE GINDRE, AGRÉGÉE D'ANGLAIS

All courses of the department are conducted in French. Oral expression is stressed.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Qualified students may be recommended by the department for the junior year abroad. See page 30, The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Intensive oral work, grammar and composition, reading of selected texts as an introduction to French life. Open to students who do not present French for admission. Three periods and laboratory. *The Staff*

102. PARIS AND THE PROVINCES (6 hrs.)

Short stories and novels illustrating life in various regions of France. Stress on grammar, vocabulary, and pronunciation. Oral and written work. Prerequisite, 101, or two admission units in French.* Three periods and laboratory. *The Staff*

103. CONTEMPORARY LIFE AND THOUGHT (6 hrs.)

Analysis of selected modern texts: novels, drama, poetry. Grammar review. Study of vocabulary and pronunciation. Frequent written work and oral practice. Prerequisite, 102 or three admission units in French.* Two periods and laboratory. *The Staff*

200. FRENCH LITERATURE THROUGH THE CENTURIES (6 hrs.)

First semester: from the Middle Ages to Voltaire. Second semester: from Voltaire to the present. Class discussion of selected masterpieces, short papers, outside reading. Prerequisite, 103, or four admission units in French; by permission, 102, or 104. Two periods and laboratory.
Mr. François, Mr. Galand, Miss Gindre, Miss McCulloch, Miss Convers, Mrs. Merrill

203. FRENCH MASTERPIECES (6 hrs.)

Initiation to literary analysis. Intensive study of works of various periods and genres: poetry, fiction, drama. Emphasis on oral expression and practice in writing. Prerequisite, 103 or four admission units, or, by permission, 102.* Not open to students who have taken 104. Two periods. *Mr. Bersani, Miss Weed*

204. THE MIDDLE AGES AND THE RENAISSANCE (6 hrs.)

French literature from the *Chanson de Roland* through the 16th century, with emphasis on *Tristan et Iseult, Le Roman de la Rose,* Villon, Rabelais, the poets of the Pléiade, and Montaigne. Medieval texts read in modern French versions. Prerequisite, 103, 104, or, by permission, four admission units in French; exceptionally, 200.* *Miss Lafeuille, Miss McCulloch*

213 (1). FRENCH DRAMA IN THE TWENTIETH CENTURY (2 hrs.)

Neo-classic and neo-romantic trends in modern drama; symbolism, the return to the ancient myths, the influence of existentialism. Open to students who have taken another literature course of grade II, or, by permission, 104. By special arrangement with the instructor, three hours. *Miss Melcher*

214 (1). THE FRENCH NOVEL IN THE NINETEENTH CENTURY (2 hrs.)

Significant works by a selected group of writers of the period. Both intensive and extensive reading. Prerequisite, same as for 213. By special arrangement with the instructor, three hours. *Mr. Bersani*

* The department reserves the right to place a new student in the course for which she seems best prepared, regardless of the number of units she has offered for admission.

215 (2). BAUDELAIRE AND THE SYMBOLIST POETS (2 hrs.)

The nature of the poetic experience, studied in the post-romantic poetry of the 19th century. Prerequisite, same as for 213. By special arrangement with the instructor, three hours. *Miss Melcher*

220. STUDIES IN LANGUAGE. I (2 hrs.)

Grammar, translation, composition with stress on grammar. Weekly written work. Prerequisite, 103, 104, or four admission units in French; by permission, 102. *Miss Melcher, Mr. Bersani*

221. STUDIES IN LANGUAGE. II (2 hrs.)

Designed to develop greater facility and precision in written expression for students who already have some skill in the use of French. Grammar, composition, translation. Weekly written work. Prerequisite, four or six hours of literature at the grade II level, or 220. *Miss Gindre, Miss Convers*

222 (1). CONVERSATION (1 hr.)

Study and use of new vocabulary through class discussion. Reading of French periodicals and newspapers to give some insight into contemporary French life and current events while providing material for practice in free oral expression. Open to students who are taking another grade II course in French or, by permission, to students taking a grade III course. Not open to freshmen. *Mrs. Pradal, Miss Jonquet*

223 (2). CONVERSATION (1 hr.)

Similar to 222 in methods and aims. Prerequisite, same as for 222. *Mrs. Pradal, Miss Jonquet*

224. FRENCH SPEECH. I (2 hrs.)

Analysis of French pronunciation. Systematic exercises in pronunciation and intonation based on passages of prose and poetry; semi-weekly recordings. Open to students who have taken 104, and to those who have taken or are taking a grade II or a grade III course in French. Recommended to students majoring in French. Two periods. *Miss Jones*

300. PRE-ROMANTICISM AND THE ROMANTIC PERIOD (1750-1850) (6 hrs.)

Awakening of sensibility in the 18th century: Diderot, Rousseau; Mme de Staël, Chateaubriand. The romantic generation: Lamartine, Vigny, Hugo, Musset; Stendhal, Balzac. Prerequisite, four or six hours of literature at the Grade II level. *Miss Melcher, Mrs. Pradal*

301. FRENCH CLASSICISM (6 hrs.)

The formation of the classical ideal and its flowering in the 17th century. Among the authors studied: the poets of the early 17th century; Corneille, Pascal, Molière, Racine, La Fontaine, La Bruyère. Open to juniors and seniors who have taken 204, 212-213, or a six-hour course of grade III, or, by permission, 200, 201. *Mr. François*

303 (1).* THE CENTURY OF ENLIGHTENMENT. I (3 hrs.)

Transition and ferment; the awakening of liberal thought in the first half of the 18th century. Among the authors studied: Fontenelle, Lesage, Marivaux, Montesquieu, Voltaire before 1750. Prerequisite, same as for 301.

Miss Melcher

304 (2).* THE CENTURY OF ENLIGHTENMENT. II (3 hrs.)

The literature of ideas: the philosophic and humanistic spirit in France after 1750. Among the authors studied: Voltaire after 1750, Diderot and the Encyclopédistes, Rousseau, Beaumarchais. Prerequisite, same as for 301. *Miss Melcher*

305. THE EVOLUTION OF THE FRENCH NOVEL (6 hrs.)

Intensive reading of representative masterpieces: medieval romances and stories; *Gargantua* and *Pantagruel;* novels of the classical period and 18th century; 19th century works such as *La Chartreuse de Parme, Le Père Goriot, Madame Bovary,* and texts by Maupassant, Zola, Barrès. Open to juniors and seniors who have taken 204, 212-213, or a six-hour course of grade III. (Not offered in 1960-61.)

306.* THE FRENCH RENAISSANCE (6 hrs.)

A critical study of some representative writers, such as Marot, Calvin, Rabelais, Ronsard, Montaigne; their relation to the history and the art of the time. Open to juniors and seniors who have taken a six-hour course of grade III. (Not offered in 1960-61.) *Miss Lafeuille*

307. TWENTIETH CENTURY FRENCH LITERATURE (6 hrs.)

Study of the main currents in contemporary French literature; analysis of representative works. Open to seniors who have taken a six-hour course of grade III. *Mr. Galand*

308 (1). STUDIES IN LANGUAGE. III (3 hrs.)

Translation into French from modern novels and essays. Study of French style through analysis of selected texts. Occasional free composition. Open to juniors and seniors who have taken or are taking a six-hour course of grade III.

Miss Gindre

310 (2). STUDIES IN LANGUAGE. III (3 hrs.)

A continuation of 308, with different subjects and texts. Primarily for students who have taken 308. Prerequisite, same as for 308. *Miss Gindre*

313. FRANCE TODAY (2 hrs.)

Study of various aspects of 20th century France. Prerequisite, same as for 308. (Not offered in 1960-61.)

316. FRENCH SPEECH. II (2 hrs.)

Advanced scientific training in French diction and intonation with the aid of modern recording equipment. Study of varied texts and practice in oral composition and self-expression. Open to students who have taken 224, or by permission. (Not offered in 1960-61.)

* Offered in alternate years.

321 (1). SEMINAR. MEDIEVAL LANGUAGE AND LITERATURE (3 hrs.)

Close reading of medieval masterpieces in Old French: *La Chanson de Roland*, a romance by Chrétien de Troyes, the poems of Villon, extracts from other texts. Open by permission to seniors who have taken 12 hours of grade III or the equivalent. (Not offered in 1960-61.)

322 (1). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR (3 hrs.)

The life and works of a writer in relation to the social history and literary trends of his period. In 1960-61 the author studied will be Racine. Prerequisite, same as for 321. *Mr. François*

324 (2). SEMINAR. FRENCH RENAISSANCE (3 hrs.)

Intensive study of some representative works. Prerequisite, same as for 321. (Not given in 1960-61.)

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Prerequisite, same as for 321.

DIRECTIONS FOR ELECTION

Course 103 and all grade II and grade III courses, except the linguistic courses, may be elected to fulfill the literature requirement in Group I.

Course 101 counts for the degree but does not count toward a major.

Students who have taken 101 and 102 may not elect 103.

Course 102 counts for the major only if directly followed by a six-hour course of grade II.

Students taking courses 101 and 102 should not elect a third course of grade I. Students planning to major in French (with the exception of those who carried a grade II course in their freshman year) should not elect a second six-hour course of grade II without permission of the department.

Courses 221, 308, 310 give valuable training in language skill. Students majoring in French should elect at least two of these courses. Courses 224 and 316 will give intensive training in diction.

Students majoring in French are advised to include 204 or 306, and 301 in their program.

Special attention is called to Education 302; this course is recommended to students majoring in French.

RELATED COURSES SUGGESTED FOR ELECTION

Geography 208, and History 210 and 211 are especially useful for French majors.

Students who may wish to do graduate work in French are advised to begin the study of a second modern language.

Related courses in art, history, philosophy, English and foreign literatures are recommended.

By careful choice of related courses, a student majoring in French may plan a field of concentration emphasizing one period, such as the Middle Ages, the Classical period, or contemporary France. Students interested in such a plan should consult the chairman of the department as early as possible.

GEOGRAPHY

Professor: ELIZABETH EISELEN, PH.D. (Chairman)
Assistant Professor: MARTHA ELEANOR CHURCH, PH.D.
Custodian: MARTHA MILES GORDON

102 (1). FUNDAMENTALS OF WORLD GEOGRAPHY (3 hrs.)

A study of the physical elements of geography and of the principles underlying their distribution in the world; special reference to associated problems in emerging and developed regions of the world. Open to all undergraduates.
Miss Eiselen

104 (1). GEOGRAPHY OF THE UNITED STATES AND CANADA (3 hrs.)

A study of the major geographical regions of Anglo-America. Particular consideration given to environmental factors of importance to current economic and political problems. Open to all undergraduates. *Miss Eiselen*

105 (2). GEOGRAPHY OF SOUTH AMERICA (3 hrs.)

A study of the environmental characteristics of the countries of South America; the relationship of environment to past, present and possible future development of the various countries. Open to all undergraduates. *Miss Eiselen*

208 (2). GEOGRAPHY OF EUROPE (3 hrs.)

A study of the geographical character of the European continent. Economic and political implications of recent developments in resource utilization as well as changes occurring in traditional land use patterns. Open to sophomores who have taken 102 or 104 or six hours of economics, history, political science or sociology, and to juniors and seniors without prerequisite. *Miss Church*

209 (1). GEOGRAPHY OF AFRICA (3 hrs.)

A study of Africa with emphasis on selected geographical factors affecting current economic and political changes in the continent. Prerequisite, same as for 208. *Miss Eiselen*

210 (1). GEOGRAPHY OF THE MIDDLE EAST (3 hrs.)

Investigation of particular environmental conditions related to economic and political development in the Middle East. Prerequisite, same as for 208.
Miss Church

211 (2). CARTOGRAPHY (3 hrs.)

History of maps; principles and problems involved in map making and map interpretation; use of aerial photographs and other source materials. Opportunity in laboratory for individual map projects to suit special interests of the student. Open to sophomores who have taken one course in geography or geology and to juniors and seniors without prerequisite. Three periods of lecture and laboratory. (Not given in 1960-61.) *Miss Church*

306 (2). CONSERVATION OF NATURAL RESOURCES (3 hrs.)

A study of selected problems associated with the need for and the principles governing the conservation of the natural resources of the United States; problems of water supply, floods, land use, wildlife, and mineral and power supplies. Open to juniors and seniors who have taken six hours of geography or are majoring in economics, political science, geology, or the biological sciences.
Miss Eiselen

308 (1). GEOGRAPHY OF ASIA (3 hrs.)

An examination of the geographical character of the Asiatic continent. Analysis of resources and of the imprint of varying cultures upon the land. Emphasis placed upon newly developing patterns of occupance in China, Japan, India, and Pakistan. Open to juniors and seniors who have taken six hours of geography, or, by permission, to specially qualified students. *Miss Church*

310 (2). GEOGRAPHY OF THE U.S.S.R. (3 hrs.)

Intensive study of significant geographical developments in the U.S.S.R. Special attention given to particular aspects of resource planning. Prerequisite, same as for 308. *Miss Church*

311 (1). SEMINAR. WORLD PATTERNS (3 hrs.)

Study of selected physical elements of geography from the systematic approach as the basis for the correlation of the repeated geographic patterns of the continents into world patterns. Projects on Australia and other areas not covered in the regional courses. Required of senior majors; open to seniors who have taken twelve hours of regional geography. *Miss Church*

312 (2). SEMINAR. ECONOMIC GEOGRAPHY OF THE WESTERN HEMISPHERE (3 hrs.)

Investigation of selected problems in the economic geography of Anglo and Latin America, including Mexico, Central America, and the Caribbean Islands. Open to juniors and seniors who have taken six hours of world or regional geography, and to juniors and seniors majoring in Spanish who have taken 104 or 105. *Miss Eiselen*

DIRECTIONS FOR ELECTION

Grade I and II courses may be elected as non-laboratory science courses to fulfill part of the Group III distribution requirement. Grade III courses in geography do not count for distribution.

A geography major should include 102 and 211. In addition, related work should include Botany 207 or Geology 101 (1).

Attention is called to the possibility of emphasizing area studies in the field of concentration.

GEOLOGY

Professor: LOUISE KINGSLEY, PH.D. (Chairman)
Assistant Professor: DABNEY WITHERS CALDWELL, PH.D.

Custodian: MARTHA MILES GORDON

101.† GENERAL GEOLOGY (6 hrs.)

Physical and historical geology. The work of rivers, oceans, glaciers and volcanoes throughout geologic time. The origin and history of mountains, and the structure and development of the North American continent. The history of living things as recorded by fossils. Mineral and fuel resources.

Open to all undergraduates. Two periods of lecture or discussion and three of laboratory. Occasional afternoon field trips substituted for laboratory work. *The Staff*

† The first semester may be elected separately by junior and senior geography majors.

103 (2). Gems and Related Minerals (3 hrs.)

A study of physical properties of minerals. Laboratory work: determination of physical properties, identification, cutting and polishing semiprecious stones. Open to all undergraduates. Three periods of lecture and laboratory. Counts toward a major in geology but not for distribution. (Not offered in 1960-61.)

Miss Kingsley

202 (1). Mineralogy (3 hrs.)

A study of common ore, rock-forming, and accessory minerals. Geologic occurrence and economic use. Identification by physical properties and simple chemical tests. Field trips. Prerequisite, Geology 101 or 103, Chemistry 101, or Interdepartmental 106. Five periods of lecture and laboratory.

Mr. Caldwell

204 (1). Geomorphology (3 hrs.)

A study of land forms and their origin; their use in interpretation of geologic history; streams, glacial features and shore processes studied in the field and in the laboratory. Quantitative studies of topographic maps and stream-gauge data. Practical application of geomorphology. Open to students who have taken one semester of 101. Three periods of lecture and laboratory. (Not offered in 1960-61.) *Mr. Caldwell*

205 (1). Invertebrate Paleontology (3 hrs.)

The facts and principles of organic evolution as revealed by the life of the past. The steps in the development from simple, generalized forms to more complex and specialized types illustrated by a comparative study of fossils. Prerequisite, 101, Zoology 101, or Interdepartmental 103. Three periods of lecture and laboratory. (Not offered in 1960-61.) *Miss Kingsley*

206 (2). Regional Geology of North America (3 hrs.)

A systematic study of the United States, Canada, and Mexico by physiographic provinces, dealing with the geologic history, the kinds of rocks (including the economically important rocks), the structures and their relations to topography. Prerequisite, 101. Three periods of lecture and laboratory.

Miss Kingsley

207 (2). Economic Geology (3 hrs.)

A study of economically valuable mineral deposits, both metallic and nonmetallic. The origin, composition, and geological and mineralogical relations of these deposits; their geographic distribution and political significance. Prerequisite, 101 and, by permission, Geography 104. Three periods of lecture and laboratory. *Mr. Caldwell*

312 (2). Crystallography (3 hrs.)

Crystal systems. Principles of optical crystallography. Determination of minerals by means of their optical properties. Open to juniors and seniors who have taken 202. Juniors and seniors majoring in chemistry or in physics admitted to the course upon the recommendation of either department. Three periods of lecture and laboratory. (Not offered in 1960-61.) *Mr. Caldwell*

313 (1). STUDIES IN STRATIGRAPHY (3 hrs.)

Various aspects of sedimentary rocks such as lithology, origin, environments of deposition, structures and relationships studied as aids in reading the stratigraphic record. Various laboratory techniques utilized in determining origin, history, and correlation of sedimentary materials. Individual study projects. Prerequisite, 101 and 202. Three periods of lecture and laboratory.

Mr. Caldwell

314 (1). STRUCTURAL GEOLOGY (3 hrs.)

Description and interpretation of rock structures. The origin and structure of mountain ranges. Individual study of areas of special interest. Laboratory work: interpretation of geologic maps, the drawing of cross-sections, and graphical solution of problems. Open to juniors and seniors who have taken 101 and a grade II course in geology. Three periods of lecture and laboratory, with occasional field trips. *Miss Kingsley*

315 (2). VULCANISM AND IGNEOUS ROCKS (3 hrs.)

Extrusive and intrusive phases of vulcanism. Description, identification, and origin of igneous and related metamorphic rocks. Particular emphasis on regional studies. Open to juniors and seniors who have taken 101 and 202. Lecture and laboratory, with occasional field trips. *Miss Kingsley*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to juniors and seniors who are majoring in the department.

SUMMER FIELD COURSES. The department will recommend summer field courses given by other colleges (dealing chiefly with the Rocky Mountain region) to interested students who have completed one year or more of geology at Wellesley. Credit may be given for such courses provided the student's plans are approved in advance by the department.

DIRECTIONS FOR ELECTION

A geology major must include 101. Grade II courses should be selected with a view to the type of advanced work which the student desires. Advice from the department should be secured. A summer field course in western United States is suggested as a good background for advanced courses.

Students interested in minerals will find good correlation among the following courses: 103, 202, and 312.

Geography 306 and the regional courses correlate well with geology. Chemistry is desirable for students majoring in geology. Those intending to do graduate work should consult the department in the selection of related courses.

GERMAN

Associate Professors: MAGDALENE SCHINDELIN,[1] PH.D.; BARBARA SALDITT, PH.D. (Chairman)

Assistant Professor: MARTHA JULIA GOTH, PH.D.

Instructors: RENATA ANITA CORNELIA HOFMAN; RUTH V. WARD

Visiting Lecturer: ELISABETH ISENBÜGEL, Staatsexamen

[1] Absent on leave.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German. Capable students in 101 have the opportunity, by doing special reading during the summer and upon approval of the Chairman, to omit 102 and proceed with 202, an introductory course in German literature. A summer term at the German School, Middlebury College, is recommended as stimulating and helpful.

Well qualified students will be allowed to spend the junior year in Germany. See page 30, The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Study of grammar and vocabulary; frequent written exercises; reading of short stories; special emphasis on oral expression. Open to students who do not present German for admission. Three periods and laboratory. *The Staff*

102. INTERMEDIATE COURSE (6 hrs.)

Extensive reading with emphasis on vocabulary building; review of fundamental principles of grammar; frequent composition and oral expression; discussion of German culture. Prerequisite, 101 or two admission units in German. Three periods and laboratory. *Miss Goth, Miss Hofman, Miss Isenbügel*

104. OUTLINE HISTORY OF GERMAN LITERATURE (6 hrs.)

First semester: an introduction to German literature from its beginning to the 17th century. Second semester: an introduction to the 17th and 18th centuries, Schiller and Goethe. Open to freshmen who present three or more admission units in German. (Not offered in 1960-61.) *Miss Salditt*

202. INTRODUCTION TO GERMAN LITERATURE (6 hrs.)

A study of the development of German literature and its cultural background from 800-1800. Works read and discussed are: the *Hildebrandslied,* selections from the *Nibelungenlied,* the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied,* selections from Luther, Hans Sachs, Lessing, Herder, Schiller, Goethe. Prerequisite, 102 or, by permission, 101. Open to freshmen by permission. Three periods. *Miss Salditt, Miss Isenbügel*

204 (1). GOETHE (3 hrs.)

Goethe's life and work; his literary growth studied with emphasis on his development from "Sturm und Drang" to classicism. Prerequisite, 104 or 202. *Miss Salditt*

205 (1). THE DEVELOPMENT FROM ROMANTICISM TO REALISM (3 hrs.)

Study of romantic thought, its literary expression and its evolution to the realistic thinking of the 19th century. Open to students who have taken 104 or 202 and, by permission, to other students with sufficient knowledge of German. *Miss Isenbügel*

206. CONVERSATION (2 hrs.)

Practice in the use of the spoken language. Class discussions based on readings in newspapers, periodicals, and other contemporary materials. Open to

students taking 202, and to others by permission of the instructor. (Not offered in 1960-61.) *Miss Schindelin*

207 (2). ADVANCED COMPOSITION AND CONVERSATION (3 hrs.)

Intensive work in written and oral German; composition, translation, grammar. Prerequisite, 202 or 206, or, by permission, 104. *Miss Isenbügel*

209 (2). LINGUISTICS (2 hrs.)

Study of the structure of the German language: advanced syntax, morphology, semantics, with emphasis on synonomy. Prerequisite, same as for 207. (Not offered in 1960-61.)

304 (2). GOETHE'S *Faust* (3 hrs.)

Intensive study of Goethe's *Faust*, Part I; extensive study of Part II. Prerequisite, 202 and 204. *Miss Salditt*

305 (2). FROM CLASSICISM TO ROMANTICISM (3 hrs.)

A study of the following authors and their respective relationships to classicism or romanticism: Schiller, Hölderlin, Kleist. Prerequisite, 204 or 205. (Not offered in 1960-61.) *Miss Goth*

306 (2). FROM LESSING TO HERDER (3 hrs.)

Literary trends in the 18th century. Extensive selections from Lessing, Herder, and Winckelmann. Prerequisite, 304. (Not offered in 1960-61.) *Miss Salditt*

308 (1). LITERATURE OF THE LATE NINETEENTH AND THE EARLY TWENTIETH CENTURIES (3 hrs.)

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of representative authors. Prerequisite, 204 or 205, and open to seniors by permission of the instructor. *Miss Goth*

312 (2). LITERATURE OF THE TWENTIETH CENTURY (3 hrs.)

Aspects and tendencies of 20th century literature from the First World War to the present time. Prerequisite, same as for 308. *Miss Goth*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 202, 204, 205, and grade III courses.

Course 101 may be counted for the degree but not for the major.

Course 102 may count for the major.

Students who begin with 101 in college and wish to major in German should consult the department in order to obtain permission to omit 102 and take 202.

Students intending to major in the department are requested to take 104 or 202 and at least 12 hours of grade III work.

GREEK

Professor: BARBARA PHILIPPA MCCARTHY, PH.D. (Chairman)
Instructor: MARY ROSENTHAL LEFKOWITZ, M.A.

101. BEGINNING GREEK (6 hrs.)

Reading of brief passages from the great poets and prose writers of ancient Greece, accompanied by the study of forms and syntax. In the second semester longer selections from Herodotus and Euripides' *Alcestis*. Open to students who do not present Greek for admission. Three periods. *The Staff*

102. MODERN GREEK (2 hrs.)

Practice in reading and speaking the Greek of today. Open by permission. (Not offered in 1960-61.) *Miss McCarthy*

104 (2). CLASSICAL MYTHOLOGY (3 hrs.)

The more important classical myths, read in English translations of Greek and Latin authors; their relation to the religion and art of ancient times; their later influence. Open to all undergraduates. *Mrs. Lefkowitz*

201 (1). PLATO (3 hrs.)

Apology, Crito and selections from the *Phaedo*. The personality of Socrates and his position in the development of Greek thought. Prerequisite, 101 or two admission units in Greek, or by permission. *Miss Goodfellow*

202 (2). HOMER'S *Odyssey* (3 hrs.)

Selected books of the *Odyssey* or other reading to meet the needs of the class. Intended primarily for those who have already studied the *Iliad*. Prerequisite, 201. (Not offered in 1960-61.)

203 (1), (2). GREEK EPIC AND TRAGEDY IN ENGLISH TRANSLATION (3 hrs.)

The *Iliad* and *Odyssey*, and plays of Æschylus, Sophocles, and Euripides. The origin of epic poetry and tragedy and their influence on later literature. Open to juniors and seniors without prerequisite, and to sophomores who have taken a course in literature in any department.

Miss McCarthy, Miss Goodfellow

205 (2). HOMER'S *Iliad* (3 hrs.)

Selected books of the *Iliad*. Prerequisite, 201 or by permission.

Miss McCarthy

301. GREEK DRAMA (6 hrs.)

Study in Greek of one play by each of the dramatic poets: Æschylus, Sophocles, Euripides, Aristophanes; reading of other plays in translation. Prerequisite, 205 or 202, or by permission. *Miss McCarthy, Mrs. Lefkowitz*

302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS (6 hrs.)

Epic, lyric, and pastoral poetry. Prerequisite, 205 or 202.

Miss McCarthy, Mrs. Lefkowitz

306. GREEK PROSE FROM HERODOTUS THROUGH LUCIAN (6 hrs.)

Reading from Herodotus, Thucydides, Plato, and Lucian, chosen according to the interests of the class. Prerequisite, same as for 302. (Not offered in 1960-61.)

Miss Goodfellow

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect any course in Greek except 101, 102.

Courses 104 and 203 may not be counted toward a major in Greek.

Students majoring in Greek are advised to elect some work in Latin. Their attention is also called to the courses in Greek history, Greek art, and Greek philosophy.

Students interested in archeology are referred to the interdepartmental major in classical archeology (see page 48).

Qualified students may fulfill the second semester of the Biblical history requirement by electing Biblical History 210, THE FIRST THREE GOSPELS IN GREEK.

HISTORY

Professors: EVELYN FAYE WILSON, PH.D.; HENRY FREDERICK SCHWARZ,[1] PH.D.; CHARLOTTE ELIZABETH GOODFELLOW, PH.D.

Associate Professors: EDWARD VOSE GULICK, PH.D. (Chairman); JOSEPH LEWIS SULLIVAN, PH.D.

Assistant Professors: ALICE BIRMINGHAM COLBURN, PH.D.; KATHRYN LEE CONWAY TURNER, PH.D.; MIRIAM HASKELL BERLIN, PH.D.; ROBERT ARNOLD FEER, PH.D.

Instructors: WALTER WARREN WAGAR, PH.D.; EUGENE LIONEL COX, PH.D.; BETTY RAE NESBITT, B.A.

Lecturers: MARTHA JANE ELLIS, PH.D.; HAROLD EUGENE HEYE, PH.D.; JEFFREY BUTLER,[2] M.A.

101. MEDIEVAL AND EARLY MODERN EUROPE (6 hrs.)

A study of the origins of modern European civilization through the Renaissance and Reformation. Political, social, and economic institutions and concepts under changing conditions; the development of Christianity; the assimilation of the heritage of the ancient world; feudalism and the rise of the middle class; the growth and expansion of the national state. Open to all undergraduates. *The Staff*

102. MODERN EUROPEAN HISTORY (6 hrs.)

A survey of the European world in the 17th century; the evolution of modern Europe as determined by such movements as colonial expansion, economic and political revolutions, ideological changes, and international relations. The emergence of present world problems. Open to all undergraduates. *The Staff*

103. HISTORY OF WESTERN THOUGHT (6 hrs.)

The basic ideas which have moulded western civilization traced in their development from classic times in relation to the major trends in western European history. Illustrated by reading from works of great historical importance. Open to juniors and seniors who have not taken 101 or 102 and, by permission, to freshmen and sophomores who have some knowledge of European history. *The Staff*

200. HISTORY OF EUROPE FROM THE DECLINE OF ROME TO THE PRESENT TIME (6 hrs.)

[1] Absent on leave.

[2] Appointed for the second semester only.

The evolution of medieval society; the emergence of national states; ideological and cultural changes; European expansion overseas; the development of nationalism, democracy, and authoritarianism; world conflicts. (Primarily for non-majors.) Open to juniors and seniors, except those who have taken 101 or 102. *Mr. Heye*

202 (1), (2). Europe in the Twentieth Century (3 hrs.)

The causes and course of World War I; the peace settlements; revolutions and the emergence of communism, fascism and national socialism; social and economic tensions; rivalries among the powers; World War II and the post-war era. Prerequisite, six hours in history, or political science, or economics. *Miss Nesbitt*

205 (1). Colonial America (3 hrs.)

The foundation of the British colonies in North America, colonial policy and administration, social and economic developments in 17th and 18th century America, the nature and course of the American Revolution to the ratification of the Constitution in 1789. Open to juniors and seniors without prerequisite, and to other students who have taken six hours in history or who have taken or are taking Economics 204 or English 223. *Mrs. Turner*

206.* Central Europe (6 hrs.)

A survey of Central Europe—Germany, Poland, Bohemia, and the Danube Valley—since the 14th century; the political evolution of the states in this area, with emphasis on social and cultural developments and relationships. Open to students who have taken six hours in history or who are giving special attention to the study of German. *Mr. Heye*

209. History of Russia (6 hrs.)

A general survey of Russian history. First semester: the evolution of the Russian state and the emergence of Russia as a European power from the earliest times to the end of the 18th century. Second semester: the political, social, and economic developments of the 19th century culminating in the Bolshevik revolution of 1917 and the establishment of the Soviet state. By permission, either semester may be taken independently. Open to all seniors, to juniors who have taken or are taking another course in history, and to sophomores who have taken six hours. *Mrs. Berlin*

210 (1). The Age of Louis XIV in France (3 hrs.)

Society and government in France during the "golden age" of absolutism. A study of the nature of the absolute monarchy and foreign relations under Louis XIV, with analysis of the social and intellectual life of the age. Prerequisite, six hours of history; no prerequisite to those giving special attention to the study of French. Not open to freshmen. *Mr. Cox*

211 (2). The Enlightenment, The French Revolution, and Napoleon (3 hrs.)

An analysis of the intellectual, social, and political forces in France after 1715 which combined to produce the crisis of 1789. Followed by a study of the era of the Revolution and Empire, with emphasis on the new social and political

* Offered in alternate years.

ideals of this period and on the relations of France with Europe. Prerequisite, same as for 210. *Mr. Cox*

213. HISTORY OF ENGLAND (6 hrs.)

A general survey of English history, political, social, economic, and cultural, with special emphasis on England's contributions to the modern world. Some attention to England's oversea expansion and the formation of the British Empire. Open to sophomores, juniors, and seniors who have taken six hours in history or are giving special attention to English literature, political science, economics, or sociology. *Mrs. Colburn, Mr. Wagar*

214. THE HISPANIC WORLD (6 hrs.)

First semester: the Moslem-Hebrew-Christian civilization of the Middle Ages, the Reconquest and Spanish Renaissance, the age of discovery and the colonial era in Latin America. Second semester: the Latin American republics since the Independence; cultural renaissance and critical political developments in 19th and 20th century Spain. Prerequisite, six hours in history. No prerequisite to sophomores, juniors and seniors majoring in Spanish. By permission of the instructor, either semester may be taken separately.

Miss Nesbitt

217. THE RENAISSANCE AND REFORMATION IN EUROPE (6 hrs.)

A study of relationships between economics, politics, and culture in western Europe, 1300-1600: the rise of capitalism and the middle class, the renaissance state, and humanism in its various aspects. In the second semester, the Protestant revolt and the Catholic reformation. By permission, either semester may be taken independently. Prerequisite, six hours in history or art. *Miss Wilson*

218.* HISTORY OF SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 218.

221 (1). THE FOUNDING OF AMERICAN NATIONALITY, 1760-1865 (3 hrs.)

The colonial period, the American Revolution, the framing and adoption of the Constitution, economic and political developments, the growth of nationalism and sectionalism, the Civil War. Open to juniors and seniors without prerequisite, and to other students who have taken six hours in history or who have taken or are taking Economics 204 or Political Science 202.

Mrs. Turner, Mr. Feer

222 (2). THE EMERGENCE OF MODERN AMERICA, 1865 TO THE PRESENT TIME (3 hrs.)

The era of reconstruction, the triumph of capitalism, the progressive period, the New Deal, and the role of the United States in world affairs during the 20th century. Prerequisite, same as for 221. *Mrs. Turner, Mr. Feer*

226. THE FAR EAST (6 hrs.)

China and Japan from 1600 to the present with emphasis on their distinctive cultures, their revolutions and their relations with the West. Open to all seniors, to juniors who have taken or are taking another course in history, and to sopho-

* Counts as related work but not as part of a major in history.

mores who have taken six hours. The first semester (i.e. to 1890) may be taken independently. *Mr. Gulick*

302.* Civilization of Greece (6 hrs.)

A study of the Near Eastern civilizations by which the Greeks were influenced. The social, economic, and political development of the Greek city-state; the most significant aspects of Greek civilization for the Western World. Museum trips, illustrated lectures, and readings from works of the great writers. Open to juniors and seniors who have taken or are taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics or Greek philosophy. By permission the first semester may be taken independently. *Miss Goodfellow*

303.* Civilization of Rome (6 hrs.)

Rome's experiments in government and the attempts of her statesmen to solve the social and economic problems of the Republic and Empire; Rome's culture and legacy to the modern world. Museum trips, illustrated lectures, and readings from the sources. Open to juniors and seniors who have taken or are taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics. By permission the first semester may be taken independently. (Not offered in 1960-61.) *Miss Goodfellow*

304. England from the Tudors to 1815 (6 hrs.)

The development of English society and the English constitution from 1485 to 1815; main currents in English thought from the Renaissance through the Enlightenment; the emergence of England as a world power. First semester, the Tudors and Stuarts to 1688; second semester, the eighteenth century. By permission either semester may be taken independently. Open to juniors and seniors who have taken 12 hours in history, or, by permission, six hours.

Mr. Wagar

305. Diplomatic History of Europe since 1789 (6 hrs.)

Problems of European diplomacy and statecraft from 1789 to the present, with emphasis on the Congress of Vienna, the Eastern Question, Bismarck, the causes of World War I, peacemaking in 1919, and the causes of World War II. Open to juniors and seniors who have taken 12 hours of history, including three hours of modern history; by permission, to specially qualified students in political science or economics who have taken History 102 or 200. *Mr. Gulick*

306. Britain since 1815 (6 hrs.)

A study of the political, socio-economic, and intellectual developments in 19th and 20th century Britain, and Britain's role in foreign and imperial affairs. First semester, 1815 through the mid-Victorian period; second semester, the late Victorian era to the present. Open to juniors and seniors who have taken 12 hours of history, including 102, or have an equivalent background in modern English history. By permission the first semester may be taken independently.

Mrs. Colburn

307. American Foreign Relations (6 hrs.)

The origin and establishment of the foundations of American foreign policy;

* Offered in alternate years.

the diplomatic problems arising from territorial and commercial expansion during the 19th century; the role of the United States in international affairs to the present time. Open to juniors and seniors who have taken 12 hours in history, or nine hours in history and Economics 314, or who have taken six hours of modern history and have taken or are taking Political Science 208 or 301.
Mr. Feer

308 (2). EUROPEAN IMPERIALISM SINCE 1870 (3 hrs.)

Survey of European overseas empires from 1870 to the present, tracing their growth, their special problems, the development of colonial nationalism, and the changes after World War II. Emphasis on the motives and on the prominent theories of imperialism. Primary attention to Africa. Open to juniors and seniors who have taken 12 hours in history or nine hours in history and Economics 314.
Mr. Butler

309. MEDIEVAL CULTURE FROM ST. AUGUSTINE TO DANTE (6 hrs.)

A study of society, thought, and learning in the early Middle Ages, the influence of Byzantine and Moslem civilizations in the West, the medieval renaissance, and the synthesis of the 13th century. Open to juniors and seniors who have taken a course of grade I or II, or are taking a course of grade III.
Miss Wilson

310. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES (6 hrs.)

The ideas associated with the development of American culture as they are embodied in political thought, religion, the arts, philosophy and social institutions from the colonial period to the present time. Open to juniors and seniors who have taken 221 and 222, or by permission. *Mrs. Turner, Mr. Feer*

312 (2). INTERNATIONAL RELATIONS: THE NEAR EAST (3 hrs.)

The evolution of European interest in the critical area between the Eastern Mediterranean and the Persian Gulf during the decline of the Turkish Empire in the 19th century with emphasis on 20th century conflicts resulting from national aspirations and economic tensions. Open to juniors and seniors who have taken a course of grade I and have taken or are taking six hours of grade II in history, or have taken six hours of grade II in history. Open by permission to specially qualified non-majors. *Mr. Sullivan*

313 (1). RUSSIA IN TRANSITION. A CENTURY OF RUSSIAN CIVILIZATION (3 hrs.)

Life and thought in Russia since the middle of the 19th century. Changes in ideas concerning political institutions, social structure, ethical and artistic standards, with special attention given to prominence and significance in Russian history of Tolstoy, Dostoyevsky, and Lenin. Prerequisite, same as for 312. *Mr. Sullivan*

314.* POLITICAL AND CULTURAL HISTORY OF GERMANY SINCE THE SEVENTEENTH CENTURY (6 hrs.)

A study of German society, and the evolution of the intellectual and artistic life of Germany against the background of political institutions and relationships, from the middle of the 17th through the 19th century. Attention given to the diversity of German culture and to the effect of outside influences and their assimilation. Open to juniors and seniors who have taken or are taking six hours

* Offered in alternate years.

of grade II in history. Open by permission to specially qualified non-majors. (Not offered in 1960-61.) *Mr. Schwarz*

315 (2). SEMINAR. INTERPRETATIONS OF HISTORY (3 hrs.)

The changing conceptions of history as illustrated by a study of selected historians from Herodotus to the present time. Emphasis upon the relation of these conceptions to the intellectual background out of which they developed and their influence upon contemporary historical thought. Open to senior majors by permission. *The Staff*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors who have taken or are taking a course of grade III in history.

DIRECTIONS FOR ELECTION

Students electing history may choose any of the introductory courses 101, 102 or 103, but not more than one of these courses may be counted in a major.

For purposes of the general examination in history required of major students, the work of the department has been distributed among five fields: (1) Ancient, (2) Medieval and Early Modern to 1648, (3) Modern European, (4) American and Latin-American, (5) International Relations (includes also foreign policy, diplomatic history, imperialism, British Empire). A student concentrating in history will normally distribute her elections so as to include at least a semester's work above the level of grade I in *three* of these fields. It is, nevertheless, also possible, if a student so desires, to design a major which will conform to these limitations, and at the same time emphasize a period (e.g. Medieval) or an area (e.g. the history of international relations) of study. Students who wish to make such an emphasis should consult with the chairman or with their special adviser in the department as early as possible.

Beginning with the Class of 1961, of the total number of hours for the major, 12 hours beyond the grade I level shall be taken in the general political or cultural history of one or more countries, areas, or periods. These 12 hours shall be divided so that six deal with history before 1715, and six with history since 1715.

PLACEMENT AND EXEMPTION EXAMINATIONS

Students who before entering college have had unusual preparation in European history with regard to both amount and type of training may apply for examination for exemption from the requirement for distribution, or for entrance directly into grade II work. In addition to the evidence offered by the examination, they will be expected to give further indication of their training by submitting papers prepared in secondary school for their classes in history.

INTERDEPARTMENTAL COURSES

103.* AN INTRODUCTORY COURSE IN BIOLOGY (6 hrs.)

A course designed to introduce the student to fundamental biological principles as a basis for an understanding of the nature and the unity of living things and of the place of man in the biologic world. Open to students who have not offered biology for admission. One period of lecture and discussion and three of laboratory or field work. *Mrs. Houck, Mr. Koob*

* This course may be elected to fulfill the laboratory science requirement in Group III.

106.* AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

A course designed to acquaint the student with some of the basic concepts of physics and chemistry, the characteristics which these sciences possess in common, and an appreciation of the methods by which the concepts have been developed. Selected fundamental concepts and principles studied in a setting which includes both the circumstances surrounding their evolution and their effect on modes of scientific thought. Open to students who do not present chemistry or physics for admission. Two periods of lecture and discussion and one three-period laboratory appointment. (Not offered in 1960-61.)

107.** INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

Representative views of the nature of man, and of his relation to the universe and society, reflected in the work of major writers of the Western world; the expression of their thought in significant artistic form, such as epic, drama, essay. Open to sophomores, juniors, and seniors, and to specially qualified freshmen by permission of the Dean of Freshmen. *Miss Taylor, Miss McPherrin*

201 (1).** RUSSIAN LITERATURE IN TRANSLATION: ROMANTICISM AND REALISM (3 hrs.)

Russian literature from its beginning to the middle of the 19th century with emphasis upon the works of Pushkin, Lermontov, Gogol, and Turgenev. Open to juniors and seniors without prerequisite. *Mr. Magassy*

202 (2).** RUSSIAN LITERATURE IN TRANSLATION: MODERN PERIOD (3 hrs.)

Russian literature from the second part of the 19th century and the 20th century with emphasis upon the works of Dostoyevsky, Tolstoy, Chekhov, and Gorky. The Soviet writers. Open to juniors and seniors without prerequisite. (Not given in 1960-61.)

218.*** HISTORY OF SCIENCE (6 hrs.)

A course designed to trace the development of scientific ways of thinking and to show how scientific ideas, methods and theories both reflect and influence man's thought in other areas. Topics from physical and biological science selected from several historical periods. Open to juniors and seniors who have taken six hours in a laboratory science and in history or philosophy. (Not offered in 1960-61.) *Miss Webster*

INTERDEPARTMENTAL MAJOR

For description of an interdepartmental major in Classical Archeology, see page 48.

* This course may be elected to fulfill the laboratory science requirement in Group III.

** This course may be elected to fulfill the literature requirement in Group I.

*** This course may be elected to complete the distribution requirement in Group III after the student has taken a six-hour laboratory course.

ITALIAN

Associate Professor: GRAZIA AVITABILE, PH.D. (Chairman)

Lecturer: ZINA JOAN TILLONA, D.M.L.

The language of the classroom is Italian except for occasional necessary explanations of grammar and idioms.

Qualified students are permitted to spend the junior year in Italy with the foreign study group of Smith College.

A summer term at the Italian School, Middlebury College, is recommended.

101. ELEMENTARY COURSE (6 hrs.)

The fundamental elements of Italian grammar and a general view of Italian civilization. Frequent oral and written exercises. Reading aloud with special emphasis on correct pronunciation. Open to students who do not present Italian for admission. Three periods including laboratory. *The Staff*

103.† INTRODUCTION TO THE ITALIAN RENAISSANCE (6 hrs.)

First semester: intensive study of the Italian language with particular reference to reading. Second semester: reading and discussion of selections from outstanding Italian authors of the period, such as: Petrarca, Boccaccio, Vasari, Leonardo da Vinci, Machiavelli, Castiglione, Bandello, Ariosto, Tasso. English is the language of the classroom. No prerequisite. Open to juniors and seniors. *Miss Tillona*

201.† ITALIAN LITERATURE OF THE TWENTIETH CENTURY (6 hrs.)

Drama, fiction and poetry in the works of representative authors such as D'Annunzio, Pirandello, Moravia, Ungaretti. Prerequisite, 101. *Miss Tillona*

203 (1).† INTERMEDIATE ITALIAN (3 hrs.)

Emphasis on language, composition, and conversation through the use of material which deals with contemporary Italy. Prerequisite, 101. *Miss Tillona*

204.† ITALIAN LITERATURE OF THE NINETEENTH CENTURY (6 hrs.)

Romanticism, classicism, nationalism, realism. An intensive study of selected works by Foscolo, Manzoni, Leopardi, Carducci, Verga, and Pascoli. Prerequisite, 101. *Miss Avitabile*

301.*† DANTE (6 hrs.)

A study of Dante's *Divina Commedia* and minor works. Prerequisite, 201, 204, or by permission 302. *Miss Avitabile*

302 (2).† ADVANCED ITALIAN (3 hrs.)

Translations from contemporary prose. Conversation based on articles in Italian newspapers and reviews. Prerequisite, 201, 203, or 204. *Miss Tillona*

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection in the college library.

† Some work will be required in the laboratory.

305.* † THE ITALIAN RENAISSANCE (6 hrs.)

Trends, aspirations, and achievements as revealed in the works of authors such as: Petrarca, Boccaccio, Alberti, Machiavelli, Castiglione, Ariosto, and Tasso. Prerequisite, same as for 301. *Miss Avitabile*

309* (2). SEMINAR. ITALIAN ROMANTICISM (3 hrs.)

Research in some significant phases of Italian Romanticism. Open by permission. *Miss Avitabile*

350.* RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors who have taken or are taking a course of grade III in the department.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect any course except 101, 103, 203, and 302.

It is recommended that students majoring in Italian take as related work at least one course in another literature, ancient or modern, and one or more courses in European history and art. Majors are advised to include in their programs 203 and 302.

Course 101 may not count toward the major.

LATIN

Professors: DOROTHY MAE ROBATHAN, PH.D.; MARGARET ELIZABETH TAYLOR, PH.D.; CHARLOTTE ELIZABETH GOODFELLOW, PH.D (Chairman)

102. BEGINNING LATIN (6 hrs.)

A course designed to enable students to acquire in one year the basic preparation for the reading of Latin authors. Form, syntax, reading of simple Latin and selections from classical writers. Open to students who do not present Latin for admission. Three periods. (Not given in 1960-61.) *Miss Goodfellow*

103. VERGIL AND LYRIC POETRY (6 hrs.)

Epic: Selections from the *Æneid;* Lyric: Catullus and Horace. Prerequisite, two admission units of Latin or three units not including Vergil, or 102. *Miss Taylor*

105 (1). LATIN LITERATURE IN ENGLISH TRANSLATIONS (3 hrs.)

Important works of prose and poetry selected to illustrate certain aspects of Roman civilization. Reading and lectures on the archeological remains which throw light on the social, political, and religious background of the literature. Open to all undergraduates. *Miss Robathan*

106. MEDIEVAL LATIN (6 hrs.)

Readings from Latin writers in the fields of literature, history, and philosophy of the Middle Ages, including Cassiodorus, Gregory the Great, Bede, Geoffrey

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection in the college library.

† Some work will be required in the laboratory.

of Monmouth, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum*, religious drama, songs of the Goliards, and church hymns. Only so much attention given to linguistic study as the reading requires. Prerequisite, two or three admission units of Latin, or 102. (Not offered in 1960-61.) *Miss Goodfellow*

201. LATIN LITERATURE OF THE REPUBLIC AND EARLY EMPIRE (6 hrs.)

Reading of the first semester drawn from a variety of types and authors: the lyrics of Catullus, a comedy of Plautus or Terence, and an essay of Cicero; the second semester largely devoted to the Odes of Horace. Prerequisite, four admission units of Latin or 106; or three units including one of Vergil.
Miss Robathan

206. COMPOSITION (2 hrs.)

Studies in syntax and the writing of Latin prose. Prerequisite, 103 or 106 or 201. *Miss Taylor*

211 (1). LUCRETIUS (3 hrs.)

Reading from the *De Rerum Natura*, the poetry and philosophy of Epicureanism. Prerequisite, 103 or 201. *Miss Taylor*

212 (2). IDEALS OF EARLY ROME (3 hrs.)

Selections from the authors of the Golden Age, especially Livy, Cicero, and Ovid, correlated with the student's earlier reading of Vergil and Horace. Reading to vary from year to year depending upon the themes selected for emphasis. Prerequisite, 103 or 201. *Miss Robathan*

302 (1). SATIRE. HORACE AND JUVENAL (3 hrs.)

The origin and development of satire as a literary form. Special emphasis upon the satires of Horace and Juvenal. Prerequisite, 211 and 212.
Miss Robathan

303 (1). LATIN INSCRIPTIONS (3 hrs.)

Selected inscriptions studied both for form and content as sources for the study of Roman public and private life. Prerequisite, same as for 302.
Miss Robathan

304 (2). TOPOGRAPHY AND MONUMENTS OF ROME (3 hrs.)

The physical development of the city as revealed by the archeologist. Some reading in Latin sources as background for the study of sites and monuments. Prerequisite, same as for 302. (Not offered in 1960-61.) *Miss Robathan*

305 (1). COMEDY. PLAUTUS AND TERENCE (3 hrs.)

Careful study of representative plays followed by the rapid reading of others. The sources of Latin comedy, its linguistic and literary features, and its influence upon later literature. Prerequisite, same as for 302. (Not offered in 1960-61.)
Miss Robathan

306 (2). STUDIES IN ROMAN RELIGION (3 hrs.)

The changing religious experience of the Republican period and of the early

Empire; the influence of oriental cults. Readings from the sources, especially from Livy, Cicero, and Ovid. Prerequisite, same as for 302. *Miss Taylor*

309 (1). PROSE LITERATURE OF THE EARLY EMPIRE (3 hrs.)

History: Livy, Tacitus, Suetonius, Velleius Paterculus. Reading based on choice of topics. Prerequisite, same as for 302. (Not given in 1960-61.)
Miss Goodfellow

311 (2). VERGIL (3 hrs.)

The *Eclogues, Georgics, Æneid.* The poet's achievement in the pastoral, didactic and heroic epic; studies in his literary inheritance from the Greek and his influence on later literature. Prerequisite, same as for 302. (Not offered in 1960-61.) *Miss Taylor*

312 (2). POETRY OF THE EMPIRE (3 hrs.)

Elegy: Tibullus, Propertius, Ovid. Selections from representative poets of the later period. Prerequisite, same as for 302. *Miss Robathan*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

The literature requirement in Group I may be met by electing from the following list of courses: 103, 105, 106, 201, 211, 212, 302, 305, 309, 311, 312.

Courses 102, 105, count for the degree but do not count toward a major in Latin.

Students intending to major in Latin are advised to take at least one course in Greek and History 303. Attention is also called to Art 201 and 209 and to courses in ancient philosophy.

Courses 303, 304, and 306 should in general be elected only in combination with courses in Latin literature.

Recommended students may elect an interdepartmental major in classical archeology (see page 48).

MATHEMATICS

Professor: HELEN GERTRUDE RUSSELL, PH.D. (Chairman)
Assistant Professor: JACQUELINE PASCAL EVANS,[1] PH.D.
Instructors: ARTHUR LOUIS GROPEN, PH.D.; JUDITH BARBARA HIRSCHFIELD, M.A.; J. RICHARD TESSMER, B.S.

Lecturer: JESSIE ESTHER COMEGYS, PH.D.

Students should consult the announcements of the departments of astronomy, chemistry, economics, philosophy, and physics for courses to which mathematics is either an absolute or an alternative prerequisite.

106. INTRODUCTORY MATHEMATICS (6 hrs.)

Plane trigonometry, plane analytic geometry and an introduction to calculus with emphasis on fundamental unifying mathematical concepts and the interrelationship of mathematical systems of thought. Prerequisite, three admission units in mathematics. *The Staff*

[1] Absent on leave.

107. ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS (6 hrs.)

Similar to 106, but with additional topics and applications connected with analytic geometry and elementary calculus. Prerequisite, three admission units in mathematics and a substantial course in trigonometry. *The Staff*

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

A study of the derivative and the integral including geometric and physical interpretations. Prerequisite, 106 or 107. *The Staff*

205 (2).* INTRODUCTION TO MATHEMATICAL STATISTICS (3 hrs.)

Fundamental statistical methods, with special emphasis on the use of elementary mathematics and calculus in the development of theory and in practice. Assigned laboratory work included. Prerequisite or corequisite, 202.
Miss Hirschfield

302. ADVANCED CALCULUS (6 hrs.)

Infinite series; functions of several real variables; introduction to complex variable theory. Prerequisite, 202. *Miss Comegys, Mr. Tessmer*

303 (1).† DIFFERENTIAL EQUATIONS (3 hrs.)

An introductory course in ordinary differential equations. Prerequisite, 202.
Mr. Gropen

306 (1). INTRODUCTION TO MODERN ALGEBRAIC THEORY (3 hrs.)

Study of polynomials; introduction to matrices, determinants, groups and fields. Prerequisite, same as for 302. (Not offered in 1960-61.)

307 (2). *MODERN ALGEBRAIC THEORY (3 hrs.)

Continued study of algebraic systems. Prerequisite, 306. (Not offered in 1960-61.)

308. FUNCTIONS OF A COMPLEX VARIABLE (6 hrs.)

Elementary treatment of analytic functions. Infinite series, transformations, and conformal mapping. Prerequisite, 302. *Miss Russell*

309 (2).* PROJECTIVE GEOMETRY (3 hrs.)

Concepts and theorems of projective geometry developed by both synthetic and analytic methods. Prerequisite, 202. *Mr. Gropen*

310 (1). FUNCTIONS OF A COMPLEX VARIABLE (3 hrs.)

Elementary functions and their mapping properties; integration theory; series expansions of analytic functions. Prerequisite, 302. (Not offered in 1960-61.)

311 (2). INTRODUCTION TO MODERN ANALYSIS (3 hrs.)

The real number system; elementary topology with applications to function theory: set theory, metric spaces, mappings and related topics. Prerequisite, same as for 310. (Not offered in 1960-61.)

* Offered in alternate years.
† Astronomy 300, Physics 304, Physics 306, may be counted toward a major in mathematics. Physics 306 must be preceded by Mathematics 303.

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

A major must include at least 12 hours of grade III in mathematics. Six of these 12 hours must be taken in the senior year. Course 302 is required.

Beginning with the Class of 1962, courses 302 and 306 will be required in the major.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption from a course in mathematics to satisfy partially the distribution requirement in Group III will be offered to students who have been unusually well prepared in algebra, trigonometry, analytic geometry, and the elements of differentiation and integration.

Students desiring to enter directly into grade II work may either apply for the exemption examination or give evidence of having completed the work in secondary school in a satisfactory manner.

MUSIC

Professors: HOWARD HINNERS,[2] B.A.; HUBERT WELDON LAMB, B.A. (Chairman)
Instructors: SAM ALBERT DI BONAVENTURA,[4] M.MUS.; JOHN THOMAS FESPERMAN, JR., M.MUS.; OWEN HUGHES JANDER, M.A.

Lecturers: WILLIAM A. HERRMANN, JR., M.A. (Director of the Choir); ALLEN DWIGHT SAPP, JR., M.A.

Instructors in Practical Music: DAVID BARNETT, B.A., MUS.D. (Hon.) (Piano); ALFRED ZIGHERA (Cello); KLAUS GOETZE (Piano); RUTH POSSELT BURGIN (Violin); MARGARET TORBERT DUESENBERRY, M.A. (Violin and Director of Chamber Music); JAMES PAPPOUTSAKIS (Flute); FRANK COCHRAN TAYLOR II, B.A. (Organ); ELEANOR MIRIAM DAVIS, M.MUS. (Voice); EUGENE LEHNER (Viola); LOUISE CAME PAPPOUTSAKIS (Harp); LOIS F. PARDUE, B.M. (Organ); RICHARD BARTON SUMMERS, M.MUS. (Clarinet and Oboe)

101. FUNDAMENTALS AND ELEMENTARY ANALYSIS (6 hrs.)

Notation, modes, intervals, chords. Analytical study of the elements of music. Introduction to the principles of harmony as exemplified in the forms of the classical period. Drill in ear training, sight singing, clef reading, and transposition. Open to all undergraduates. Three periods, one lecture and two section meetings. *Mr. Sapp*

103. INTRODUCTION TO MUSICAL LITERATURE (6 hrs.)

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music required. Open to sophomores, juniors, and seniors who have taken no other course in the department, and to freshmen by permission of the chairman. Not to be counted toward a major. Two periods of lecture and one section meeting.

Mr. Herrmann

[2] Absent on leave for the first semester.
[4] Appointed for the first semester only.

201. ELEMENTARY HARMONY (6 hrs.)

Triads and their inversions, secondary dominants, modulation, and non-harmonic tones. Harmonization of melodies and unfigured basses. Upon recommendation of the instructor, qualified students in 201 will be permitted, during the second semester, to accelerate and thus to achieve advanced standing in the harmony sequence (201-310). Open to students who have taken 101 or who have been exempted from it on the basis of the test in fundamentals. Sufficient facility at the keyboard to play hymn tunes at sight is required. Three periods.
Mr. Hinners, Mr. Di Bonaventura

202. DEVELOPMENT OF MUSIC FROM 1600 TO THE PRESENT (6 hrs.)

A survey of materials and methods. Open to students who have taken 101 or who have been exempted from it on the basis of the test in fundamentals. Three periods of lecture and conference. *Mr. Jander*

209 (1). THE CLASSICAL PERIOD (3 hrs.)

The development of the classical sonata, string quartet, symphony, and concerto. Prerequisite, 101 or 103. Not to be counted toward a major. *Mr. Sapp*

210 (2). THE ROMANTIC PERIOD (3 hrs.)

Study of the larger forms of the 19th century through analysis of selected works. Prerequisite, same as for 209. Not to be counted toward a major. (Not offered in 1960-61.) *Mr. Sapp*

214 (2). THE TWENTIETH CENTURY (3 hrs.)

An introduction to contemporary music through analysis of representative compositions. Prerequisite, 202 or 209. Not to be counted toward a major.
Mr. Sapp

300. DESIGN IN MUSIC (6 hrs.)

Detailed analysis of representative works illustrating the evolution of forms and structural procedures in the music of the 17th, 18th, and 19th centuries. Main emphasis on the period from Bach through Beethoven. Prerequisite, 201 or 202 or 301. Three periods. *Mr. Di Bonaventura, Mr. Jander*

301. COUNTERPOINT (6 hrs.)

The principles of two- and three-part writing. Composition in small forms. Analysis. Prerequisite, 201 or by permission. *Mr. Lamb*

303 (1). THE MIDDLE AGES AND THE RENAISSANCE (3 hrs.)

The development of music to 1600. Prerequisite, 202. *Mr. Jander*

306 (1). THE SEVENTEENTH CENTURY (3 hrs.)

Studies in baroque style. Open to juniors and seniors who have taken six hours of grade II. *Mr. Jander*

307 (2). THE OPERA (3 hrs.)

A study of operatic forms, styles, and traditions from the time of Mozart to the present. Prerequisite, same as for 306. *Mr. Herrmann*

309 (2). BACH (3 hrs.)

The style of J. S. Bach and its place in the history of music. Analysis of se-

lected vocal and instrumental works. Open to juniors and seniors who have taken 202 and one of the following: 201, 300 or 301. (Not offered in 1960-61.)

310. ADVANCED HARMONY (6 hrs.)

Dominant sevenths, complete and incomplete dominant ninths, the augmented sixth chords and secondary sevenths. Prerequisite, 201.

Mr. Hinners, Mr. Di Bonaventura

311 (2). ADVANCED HARMONY (3 hrs.)

Accelerated course. Open only to students who have achieved advanced standing in the harmony sequence by completing successfully the accelerated program offered in 201 in the second semester. *Mr. Hinners*

318 (1). SEMINAR. BEETHOVEN (3 hrs.)

The development of the style of Beethoven to its culmination in the *Ninth Symphony*, the *Missa Solemnis*, and the last quartets. Prerequisite, same as for 309. *Mr. Lamb*

319 (2). THE NINETEENTH CENTURY (3 hrs.)

A study of the principal styles of the romantic period. Prerequisite, same as for 309. *Mr. Jander*

325 (2). SEMINAR. STRAVINSKY (3 hrs.)

A study of the more important works and of their place in the music of the 20th century. Open to juniors and seniors who have taken 202. *Mr. Lamb*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Directed study in theory, orchestration, composition, or the history of music. Open to seniors by permission.

PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)*

Instruction is provided in piano, organ, violin, violoncello, and voice, and arrangements may be made for private instruction in other instruments. Though no academic credit is given for such study, the department strongly recommends it as a complement to the course work in music. Students in piano who wish to do so may supplement their private lessons with group study which is available to them without additional charge as part of the piano course. Advanced students of string instruments or piano are eligible, also without additional charge, for group instruction in the performance of chamber music.

Students may take practical music provided they take or have already taken a college course in the theory of music. Practical music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course.

* Students who elect practical music are charged at the rate of $115.00 for a half-hour lesson per week throughout the year. The charge for the use of a practice studio is $20.00 per year for one period daily. The charge for a daily period of organ practice is $30.00. Practical music fees are payable in advance by semesters, and are not subject to return or reduction except upon recommendation of both the Dean of Students and the department chairman.

Instruction in practical music is available to graduates of Wellesley College and to residents of the town of Wellesley by special arrangement.

Practical music study is normally undertaken on a yearly basis, though with the permission of the chairman of the department it may be elected for a single semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost, and students taking music courses are given preference in the use of them.

DIRECTIONS FOR ELECTION

For a 24 hour major, the following courses are required: 101, 202, 300, 303 and 325. Six additional hours of theory (201 or 301) are strongly recommended as supplementary to this sequence.

For a 30 hour major, the following are required: 201, 202, 301, 303, 325 and either 310 or six hours of grade III in which 311 is included.

Students preparing for graduate study, teaching, or other professional work in music should take this sequence. It is also recommended to those who are interested in intensive study of the technical aspects of music.

Suggested correlative subjects for students majoring in music: European history, literature, art.

Students proposing after graduation to continue into musicology should note that a reading knowledge of both German and French is essential for work in that field, and that in addition a certain proficiency in Italian and in Latin is highly desirable.

PRELIMINARY TEST IN FUNDAMENTALS

In the fall prior to the opening of classes, the department requires all students who elect a first course in music other than 103 to take a short test in fundamentals. The results of this test will be used as a basis for placement in sections of 101 and to admit students of sufficient advancement to grade II courses.

PHILOSOPHY

Professor: VIRGINIA ONDERDONK, B.A. (Chairman)
Associate Professor: ELLEN STONE HARING, PH.D.
Assistant Professors: LILLIAN WOODWORTH AIKEN, PH.D.; RICHARD MCKAY RORTY, PH.D.
Instructors: INGRID HESS STADLER, PH.D.; LEWIS KENT BENDALL, PH.D.

101 (1), (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)

A study of the writings of Plato and Aristotle in order to investigate the nature of philosophical inquiry, and to examine theories fundamental in Western thought, i.e. of the universe, man, society. Open to all undergraduates.

The Staff

104 (2). INTRODUCTION TO MORAL PHILOSOPHY (3 hrs.)

An examination of some outstanding moral theories, discussion to include such topics as the good, the right, freedom, moral obligation. Open to freshmen who have taken 101, and to others without prerequisite. *The Staff*

105 (2). TRENDS IN RECENT PHILOSOPHY (3 hrs.)

A study of modern theories such as pragmatism, positivism, analytic philosophy, evolutionism, existentialism. Open to sophomores who have taken 101 or 104, and to juniors and seniors without prerequisite. *The Staff*

201 (2). FURTHER STUDIES IN PLATO AND ARISTOTLE (3 hrs.)

A comparative study of the two decisive originators of Western philosophy, with emphasis upon their theories of knowledge and being. The reading will include the *Symposium, Meno,* and *Theaetetus,* and selections from the *Analytics, Physics,* and *Metaphysics.* Prerequisite, 101. *Mrs. Haring*

203 (1). AESTHETICS (3 hrs.)

A study of some classical and contemporary philosophies of art and beauty, emphasizing the nature and function of works of art. Open to sophomores who have taken a course in the department and to juniors and seniors without prerequisite. *Mrs. Stadler*

206 (1). ETHICAL THEORY (3 hrs.)

A systematic study, stressing contemporary works in ethics, of the problems of the meaning and justification of moral judgments and the nature of moral reasoning. Open to students who have taken one course in the department. *Mrs. Aiken*

211 (2). PHILOSOPHY OF RELIGION (3 hrs.)

A philosophical examination of basic problems regarding the nature and grounds of religious belief, the existence of God, freedom of the will, evil. Open to juniors and seniors. (Not offered in 1960-61.) *Mr. Rorty*

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY (6 hrs.)

A study of important European philosophies from Descartes to Nietzsche designed to give students a knowledge of the chief philosophical systems and to provide some philosophical background for the understanding of related movements in literature and the natural and social sciences. Prerequisite, same as for 203. *Miss Onderdonk, Mrs. Aiken, Mrs. Stadler, Mr. Rorty*

216 (1). FUNDAMENTAL PRINCIPLES OF LOGIC (3 hrs.)

A study of the forms of valid reasoning with emphasis on the analysis and symbolic formulation of ordinary English sentences and the deduction of simple conclusions. Some discussion of such notions as *implication, proof, consistency, definition, postulate.* Open to sophomores who have taken a course in philosophy or mathematics, and to juniors and seniors without prerequisite.
Miss Onderdonk, Mr. Bendall

217 (2). PHILOSOPHY OF SCIENCE (3 hrs.)

A study of the logical structure of scientific inquiry, including analysis of key concepts such as "cause" and "explanation," some discussion of methods of theory construction and of the implications for philosophy of a scientific outlook. Open to sophomores who have taken 216 and to juniors and seniors without prerequisite. *Mr. Bendall*

218.°° HISTORY OF SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 218.

306 (2). ADVANCED LOGIC (3 hrs.)

A study of modern developments of logic including a discussion of the nature of a deductive system, the logic of classes, and the calculus of propositions. Prerequisite, 216. *Mr. Bendall*

311 (1). KANT (3 hrs.)

An intensive study of the philosophy of Kant, with some consideration of Kant's position in the history of philosophy. Prerequisite, 214. *Mr. Rorty*

312 (2).° EXISTENTIALISM (3 hrs.)

A careful examination of Kierkegaard's *Concluding Unscientific Postscript*, Heidegger's *Introduction to Metaphysics*, and Sartre's *Being and Nothingness*. Prerequisite, 12 hours of philosophy including 214. *Mr. Rorty*

321 (2). SEMINAR. THEORIES OF KNOWLEDGE (3 hrs.)

An inquiry into the nature of knowledge and truth. Readings chosen primarily from contemporary material. Prerequisite, 214, or 216 and 217. *Mrs. Aiken*

322 (1). SEMINAR. METAPHYSICS (3 hrs.)

An examination of theories about the ultimate constituents of reality, focusing on Whitehead's system but with some reference to other philosophies. Prerequisite, 214. *Mrs. Haring*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

To meet the distribution requirement for a year's work in philosophy, students should elect 101 and either 104 or 105; or one of these courses followed by 206; or 214.

A major in philosophy must include 201, 214, 321 and 322.

All majors are urged to take 216, and are advised that a knowledge of Greek or French or German is desirable.

PHYSICAL EDUCATION

Associate Professors: ELIZABETH BEALL, PH.D. (Chairman); ELINOR MARIE SCHROEDER, PH.D.; BETTY MARY SPEARS, PH.D.

Instructors: EVELYN BOLDRICK HOWARD, M.S.; GEORGIA MAY HULAC, M.ED.; LOIS VIVIAN BROCHSTEIN, B.S.; ASTRID KEYSER FROLICH, M.S.; ANNE PEPPER NEAL, B.S.; MARIAN LOUISE STOERKER, M.S.; SYLVIA ANN CARLIER

Registrar: DORIS GRANT DALY

Musician for the Dance: KATHRYN R. HODGSON

° Offered in alternate years.

°° Counts as related work but not as part of a major in philosophy.

The Department of Physical Education, through its program adapted to individual needs and abilities, aims to help each student to build up sufficient strength and vitality to meet the demands of a normally active life; to appreciate and practice fundamental health habits; to develop good carriage, a sense of rhythm, coordination and motor judgment; to be a cooperative and contributing participant in group activity; and to acquire skills which will contribute to interest in wholesome forms of recreation.

Two hours a week of physical education activities are required for freshmen and sophomores. The activity program of each year is divided into four seasons: fall, winter (1), winter (2), spring.

Activity Requirement: The department requires that during their first two years at college students should take: (a) at least two seasons of individual sport (either the same or different sports); (b) at least one season of group activity (i.e. team sport, modern dance, synchronized swimming, or folk dance); (c) movement education, during winter (1) of the freshman year.

A student's choice of activity is subject to approval of the department, on the basis of the results of the medical and physical examinations, and the student's previous experience.

Posture Requirement: Every student is expected to attain a satisfactory grade on her posture photographs. Enrollment in course 125 will be required for students who fail to have a satisfactory grade before the winter season of the sophomore year; also for students who fail in the spring of the sophomore year. Enrollment in this course is required until the standard is attained, or until the end of the winter season of the senior year. Freshmen who demonstrate good posture in the fall and spring photographs will not have to be photographed in the sophomore year.

121 and 122. ACTIVITIES

Choice of the following: *Fall:* Archery, canoeing, crew, diving, golf, hockey, modern dance, riding, swimming, tennis, volleyball. *Winter* (1): Freshmen: Movement education. Sophomores: Apparatus and tumbling, badminton, basketball, fencing, folk dance, modern dance, skiing, squash, swimming, synchronized swimming. *Winter* (2): Apparatus and tumbling, badminton, basketball, fencing, folk dance, modern dance, skiing, squash, swimming, synchronized swimming. *Spring:* Archery, canoeing, crew, diving, golf, lacrosse, modern dance, riding, swimming, tennis, volleyball. Required of freshmen and sophomores, two periods a week. *The Staff*

124 and 125. POSTURE AND BODY MECHANICS

Recommended for freshmen and sophomores whose orthopedic or medical condition indicates the need of individually planned exercise. Two periods a week; Sophomores: *Winter* (1) or (2); Freshmen: *Winter* (2), with 121 and 122 *Fall* and *Spring*. *Miss Spears*

127 and 128. TECHNIQUE OF TEACHING ACTIVITIES OR OF OFFICIATING

Recommended for students planning to assist in teaching in a summer camp, playground, social service agency, or recreation center. Choice of the following: *Winter* (1-2): Basketball officiating. *Spring:* Archery, canoeing, tennis. *First Semester:* Modern dance, senior life saving. *Second Semester:* Camp leadership, rhythmic activities for children, senior life saving, water safety instructors. Any of these courses may be substituted for part of the activity requirement except

by freshmen during *Winter* (1). Prerequisite, basic skills in the particular activity and permission of the instructor. Permission of the class dean is required for water safety instructors' course which meets three periods a week. *The Staff*

131 and 132. MODIFIED ACTIVITIES

Choice of the following: *Fall:* Archery, canoeing, golf, riding, swimming, tennis, volleyball. *Winter* (1): Freshmen: Modified movement education. Sophomores: Badminton, fencing, folk dance, swimming, recreational activities. *Winter* (2): Badminton, fencing, folk dance, swimming, recreational activities. *Spring:* Archery, canoeing, golf, riding, swimming, tennis, volleyball. Required of freshmen and sophomores whose physical condition indicates the need of modified activities. Two periods a week. *The Staff*

DIRECTIONS FOR ELECTION

Students (including juniors and seniors) and also faculty may elect with the permission of the department any of the activities offered.

PHYSICS

Professor: DOROTHY HEYWORTH, PH.D. (Chairman)
Associate Professor: JANET BROWN GUERNSEY, PH.D.
Assistant Professor: PHYLLIS JANE FLEMING, PH.D.
Assistant: MARY MOLLOY MARTIN, B.A.

101. ELEMENTARY PHYSICS (6 hrs.)

Designed to give an intelligent understanding of man's physical environment and the everyday applications of the fundamental laws of mechanics, heat, electricity, sound, and light. Open to students who do not offer physics for admission. Two periods of lecture and discussion with one three-period laboratory appointment. *Miss Heyworth*

104. ELEMENTARY PHYSICS (6 hrs.)

The same topics as in course 101, but with greater emphasis upon the mathematical development of the subject. Open to students who do not offer physics for admission. Prerequisite, three admission units in mathematics. Two periods of lecture and discussion with one three-period laboratory appointment.
Miss Heyworth, Miss Fleming

105 (1). FUNDAMENTAL PRINCIPLES OF PHYSICS (3 hrs.)

Selected topics in mechanics; wave motion and its applications in sound and light; current electricity. Open to students who offer physics for admission. Two periods of lecture and discussion, with one three-period laboratory appointment. *Mrs. Guernsey*

106. AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 106. This course will, by special arrangement, serve as prerequisite for grade II courses in physics.

200 (2). MODERN PHYSICS (3 hrs.)

Introduction to the kinetic theory of gases. Waves and particles; atomic and nuclear structure. Optical and X-ray spectra; the periodic table of elements.

Radioactive decay. Prerequisite, 101, 104, 105, or exemption from 105. Two periods of lecture and discussion with laboratory work. *Miss Fleming*

201 (1). ELECTRICITY AND OPTICS (3 hrs.)

Fundamental laws of electric and magnetic fields; electric circuits; electric and magnetic properties of matter; physical optics. Prerequisite, 101, 104, 105, or exemption from 105, and Mathematics 106 or 107. Two periods of lecture and discussion, with one three-period laboratory appointment.

Miss Fleming

206 (2). ELECTRONICS (3 hrs.)

Fundamentals of electron flow in vacuum and gas tubes. The vacuum tube as a circuit element; application to power supplies, amplifiers, oscillators and modulators. Introduction to non-linear electronic devices. Prerequisite, 201. Two periods of lecture and discussion, with one three-period laboratory appointment. *Mrs. Guernsey*

303 (1). NUCLEAR PHYSICS (3 hrs.)

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear reactions. Prerequisite, 200 or its equivalent. *Mrs. Guernsey*

304 (2).* ELECTROMAGNETIC THEORY (3 hrs.)

Maxwell's equations; electromagnetic waves and radiation; physical optics. Prerequisite, 201 and 306. *Mrs. Guernsey*

305 (2). THERMODYNAMICS (3 hrs.)

The laws of thermodynamics; kinetic theory of gases; statistical mechanics. Prerequisite, 101, 104, 105 or exemption from 105; Mathematics 202.

Miss Heyworth

306 (1).* MECHANICS (3 hrs.)

A vector analytical presentation of Newtonian mechanics; introduction to Lagrangian and Hamiltonian mechanics. Prerequisite, same as for 305.

Miss Fleming

309 (2). ADVANCED EXPERIMENTAL PHYSICS (3 hrs.)

Fundamental experiments selected from different fields of physics. Prerequisite, 200 or its equivalent, and 201. Five periods of laboratory.

Mrs. Guernsey

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to juniors and seniors.

DIRECTIONS FOR ELECTION

A major in physics should ordinarily include 201, 206, 303, 304, 305, 306. Mathematics 202 and a year of college chemistry or its equivalent are re-

* Mathematics 303, if followed by Physics 304 and 306, may be counted toward a major in physics.

quired for a major in physics. Attention is also called to courses in astronomy as appropriate for related work. A reading knowledge of German and French is desirable.

Premedical students are referred to the requirements as given on page 31.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption from Physics 105 is offered to qualified students who present one admission unit in physics and also present an acceptable laboratory notebook when applying for the examination. Students who pass this examination will be eligible for grade II work in physics.

POLITICAL SCIENCE

Professors: M. MARGARET BALL, PH.D.; OWEN SCOTT STRATTON, PH.D.; ALONA ELIZABETH EVANS, PH.D. (Chairman)

Assistant Professor: DANTE LEE GERMINO,[1] PH.D.

Instructors: BARBARA BUCKSTEIN GREEN, PH.D.; LARRY DEAN JOHNSTON, M.A.; CHARLES OSCAR JONES, PH.D.; JOAN MARIE NELSON, PH.D.

100. INTRODUCTION TO POLITICAL SCIENCE (6 hrs.)

Fundamental political principles developed through a study of the governments of the United States, Great Britain, Soviet Russia, and other selected countries. Special emphasis upon the theory and functioning of democracy. Open to all undergraduates. By permission, either semester may be taken separately by seniors. *The Staff*

202 (1). POLITICAL PARTIES AND PRESSURE GROUPS (3 hrs.)

Nature and functions of parties and pressure groups; party organization; nominations and elections; campaign funds; the problem of party responsibility. Emphasis upon the United States, with some consideration of other democracies. Prerequisite, 100. Not open to students who have taken 203. *Mr. Jones*

205 (2). PUBLIC POLICY IN STATE AND LOCAL GOVERNMENT (3 hrs.)

Study of representative local and state governments through examination of major problems; emphasis upon such problems as organization of metropolitan areas, urban renewal, transportation and traffic, education, resource development, and political factors affecting solutions. Prerequisite, 100. Not open to students who have taken 305. *Mr. Johnston*

206 (2). PUBLIC POLICY IN THE FEDERAL GOVERNMENT (3 hrs.)

An analysis of policy formation through a study of the organization and functions of Congress, independent regulatory commissions, and the executive branch; major political relationships between the legislative and executive branches. Prerequisite, 100. Not open to students who have taken 203.

Mr. Stratton

208. INTERNATIONAL POLITICS (6 hrs.)

A study of contemporary world politics with special attention to international security and economic, social, and cultural cooperation; the League of Nations, the United Nations, and the Organization of American States; dependent areas

[1] Absent on leave.

and trusteeship. Prerequisite, 100, or six hours in history, economics, sociology, or geography. Not open to students who have taken or are taking 209. Recommended for students planning to take further work in international politics.
Miss Ball, Mrs. Green

209 (2). INTERNATIONAL POLITICS: SEMESTER COURSE (3 hrs.)

Survey of much of the material covered in 208; the international community and the forces which influence the conduct of its members; the nature and pursuit of foreign policy; international organization and the attempts to achieve security in a divided world. Prerequisite, same as for 208. Not open to students who have taken or are taking 208. Not recommended for students planning to take further work in international politics. *Mrs. Green*

212 (1). COMPARATIVE GOVERNMENT: EUROPE (3 hrs.)

A functional analysis of the governmental process in Great Britain, the German Federal Republic, Soviet Russia, and other European states: consideration of methodology in comparative government, constitutionalism, electoral experimentation, political leadership, policy-making process, control of political power. Prerequisite, 100. *Miss Evans*

301 (1). INTERNATIONAL LAW (3 hrs.)

A study of the function of law in the international community; nature of international law, international entities, jurisdiction and responsibility, law and force in the settlement of disputes; current problems in the development of the international legal system. Open to juniors and seniors who have taken 100 and a grade II course in political science, economics, history, or sociology; or 208. *Miss Evans*

303 (2). LAW AND THE ADMINISTRATION OF JUSTICE (3 hrs.)

The elements of law; development of common law principles and institutions; organization of English and American courts; civil and criminal procedure in the United States; the growth of administrative justice. Open to juniors and seniors who have taken 100 and a grade II course in political science, economics, history, or sociology. (Not offered in 1960-61.) *Mr. Johnston*

304 (2). CONSTITUTIONAL LAW (3 hrs.)

The Constitution of the United States as interpreted by the Supreme Court, and the Supreme Court's role in the political process; the President's powers, interstate commerce, due process, the police power, protection of civil rights and liberties. Prerequisite, same as for 303. *Mr. Johnston*

306 (2). COMPARATIVE GOVERNMENT: ASIA (3 hrs.)

A study of politics and government in selected Asian states, including China, Japan, and India; treating dynamics of power, leadership, political institutions, problems in policy-making. Open to juniors and seniors who have taken 100 and a grade II course in political science, History 225 or History 266 *Miss Evans*

307 (1).* COMPARATIVE GOVERNMENT: LATIN AMERICA (3 hrs.)

A study of politics and government in selected Latin American states, in-

* Offered in alternate years.

cluding Argentina, Brazil, Chile, and Mexico; treating dynamics of power, constitutionalism, crisis government, factors underlying policy formation. Open to juniors and seniors who have taken 100 and a grade II course in political science, History 214, or who are majoring in Spanish. (Not offered in 1960-61.)
Miss Ball

314 (2). Advanced Comparative Government (3 hrs.)
A study of selected problems in comparative government, based upon a functional analysis of governmental institutions and political processes in selected European, Asian, and American countries. Open to juniors and seniors who have taken at least nine hours of comparative and/or United States government. (Not offered in 1960-61.) *Miss Evans*

315 (2). International Politics and United States Foreign Policy (3 hrs.)
Intensive study of selected current problems of international politics, with emphasis upon the nature and background of each, possible solutions, and alternative policies for the United States. Open by permission to juniors and seniors who have taken 208, 209, or History 202 and 307. *Miss Ball*

316 (1). History of Political Thought (3 hrs.)
The course of Western political thought from the Greeks to the early English liberals. Relation of ideas to the development of political institutions such as the *polis*, the Roman Republic and Empire, the medieval Christian Commonwealth, and the modern nation state. Open to juniors and seniors who have taken 100 and a grade II course in history, philosophy, political science or sociology; by permission to specially qualified students who have not taken 100.
Mr. Johnston

318 (1), (2). Recent and Contemporary Political Thought (3 hrs.)
Main currents in political theory of the 19th and 20th centuries, including liberalism, the romantic reaction, socialism, communism, and fascism. Evaluation of the adequacy of the liberal conception of man and society for the present day. Open to juniors and seniors who have taken 316, or 100 and a grade II course in history, philosophy, political science or sociology.
Mrs. Green, Miss Nelson

319 (2). The Politics of Public Policy (3 hrs.)
Intensive study of selected contemporary policy problems in United States politics. Examination of the background, institutional setting, and politically possible alternative solutions of each. Agriculture, collective bargaining, communications, public power, and conservation among problems considered. Open to juniors and seniors who have taken 203 or 206, and 202, 205, 212, or 305; by permission to specially qualified students in economics. *Mr. Jones*

320 (1). Electoral Process in the United States (3 hrs.)
Intensive study of methods of selecting political leaders in the United States. Nominations, voting, campaigning, organization and operation of national and state parties. Comparison of state party systems. Open to juniors and seniors who have taken 202, or 203, and 205, 206, 212, or 305. *Mr. Stratton*

322 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source materials. Topic for the year to be announced. Open by permission to juniors and seniors majoring in political science or related fields who have taken 12 hours in political science. *Mr. Jones*

323 (2). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Prerequisite, same as for 322. (Not offered in 1960-61.)

324 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Topic for the year to be announced. Prerequisite, same as for 322. *Miss Nelson*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors who have taken six hours of grade III in political science.

DIRECTIONS FOR ELECTION

Political Science 100 and a minimum of nine hours of grade II are required for all majors. Students planning to major in political science should elect 100 before taking 208 or 209. The courses in political science above the grade I level are classified into five fields: American Government and Politics, Comparative Government, International Politics, Public Law, and Political Theory. Students majoring in political science will be expected to elect courses in four of these five fields. Each student will take a general examination in three of the four fields which she has elected in the department.

Attention is called to the possibility of emphasizing international relations or area studies in the field of concentration.

PLACEMENT AND EXEMPTION EXAMINATIONS

A. Open to any student who considers herself qualified, either by work in preparatory school or by individual reading and study. The examination will cover approximately the material studied in the second semester of Political Science 100. This examination would exempt students from *three hours* of the distribution requirement in Group II.

B. An examination covering substantially the material of the first semester's work in Political Science 100. Open to any student who considers herself qualified, either by preparatory school work or individual reading and study. This examination would exempt students from *three hours* of the distribution requirement in Group II.

Freshmen desiring to take either examination should communicate with their class dean; other students with the department chairman.

Students passing both examinations are entitled to enter 208, 209, or 212. Students passing exemption examination A, and not intending to major in the department, may enter 202.

PSYCHOLOGY

Professors: THELMA GORFINKLE ALPER, PH.D.; EDITH BRANDT MALLORY, PH.D. (Chairman)
Associate Professor: WILLIAM BLEECKER COATE, PH.D.
Assistant Professors: CLAIRE ZIMMERMAN, PH.D.; LISE WERTHEIMER WALLACH, PH.D.
Instructor: BEATRICE TUGENDHAT, D.PHIL., OXON.
Graduate Assistant: ELIZABETH EUPHROSYNE ANTONIADES, B.A.

Lecturer: IRENE RITA PIERCE,[5] PH.D.
Research Associates: ERNST GERHART GEORG WOLF, PH.D.; R. ALLEN GARDNER, PH.D.

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)

An introduction to the objective study of behavior. Topics include: perception, motivation, learning, measurement of ability, child development, social behavior. Open to all undergraduates. *The Staff*

201 (1). PSYCHOLOGICAL STATISTICS (3 hrs.)

Training in the use of statistical techniques as they have been especially adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing an understanding of the possibilities and limitations of the use of statistics in psychology. Prerequisite, 102.
Miss Zimmerman

207 (1), (2). CHILD PSYCHOLOGY (3 hrs.)

The behavior of normal children. A survey of the contributions of experimental and clinical studies of childhood, with special emphasis on patterns of parent-child relationships and current child-training theories. Prerequisite, 102. *Mrs. Alper*

209 (1). EXPERIMENTAL PSYCHOLOGY: LABORATORY COURSE (3 hrs.)

Selected experiments in various fields of psychological investigation. Training in experimental method. Four periods of laboratory and one lecture period. Prerequisite, 102. *Mr. Coate*

210 (1). SOCIAL PSYCHOLOGY (3 hrs.)

A survey of the effects of social phenomena on behavior. Consideration of such problems as the forming of attitudes, prejudice, and social learning. Prerequisite, 102. *Miss Zimmerman*

213 (1). PHYSIOLOGICAL PSYCHOLOGY (3 hrs.)

A survey of the existing information concerning mechanisms basic to behavior. Prerequisite, 102. (Not given in 1960-61.) *Miss Tugendhat*

219 (2). THE PSYCHOLOGY OF LEARNING (3 hrs.)

An examination of contemporary learning theories and of experimental work elucidating them. Basic concepts and critical problem areas treated in some detail. Prerequisite, 102. *Mr. Coate*

[5] Appointed for the second semester only.

220 (2). COMPARATIVE PSYCHOLOGY (3 hrs.)

Discussion of the contributions made and promised to psychology as a whole by studies of animal behavior, e.g., contributions to such problems as instinct, effects of early experience on adult behavior, learning, motivation, abnormal psychology, and social behavior. Laboratory work with animals. Prerequisite, 102. *Miss Tugendhat*

301 (1). HISTORY OF EXPERIMENTAL PSYCHOLOGY (3 hrs.)

A study of psychological trends, their inception, growth, and bearing upon modern psychology. Open to juniors and seniors who have taken or are taking two grade II courses in psychology. (Not offered in 1960-61.)

307 (1). PSYCHOLOGY OF THE DEVELOPMENT OF PERSONALITY (3 hrs.)

The determinants of normal personality development in childhood and adolescence. The contributions of major personality theorists. Use of the case study approach. Prerequisite, 207. *Mrs. Alper*

309 (2). ABNORMAL PSYCHOLOGY (3 hrs.)

The psychology of abnormal behavior studied to throw light on the psychology of normal behavior. A study of theories offered in explanation of neurotic and psychotic behavior as well as of techniques of psychotherapy based on these theories. Open to juniors and seniors who have taken 102 and have taken, or are taking, at least six hours of work above grade I in one of the following: psychology, sociology, zoology and physiology. Also open to seniors by permission. *Miss Pierce*

313 (1). PSYCHOLOGICAL TESTING (3 hrs.)

Principles of psychological measurement. Individual differences in intelligence and personality. Survey of methods by which psychologists have studied these differences. Examination of selected tests. Some practice in testing. Prerequisite, 209 or 201. *Mrs. Mallory*

314 (2). PSYCHOLOGICAL TESTS AND MEASUREMENT. ADVANCED COURSE (3 hrs.)

The functions of psychological measurement in counseling and placement. Special study of tests used in clinical, vocational and educational fields. Prerequisite, 313. *Mrs. Mallory*

317 (2). SEMINAR IN CHILD PSYCHOLOGY (3 hrs.)

Consideration and application of some of the major research methods currently in use in the field of child psychology. Open by permission to seniors. *Mrs. Alper*

323 (2). SEMINAR. PERSONALITY AS STUDIED BY PROJECTIVE TECHNIQUES AND RELATED METHODS (3 hrs.)

An introduction to current methods of studying personal drives and adjustment, with special emphasis on projective tests and related techniques. Prerequisite, 313. (Not offered in 1960-61.) *Mrs. Mallory*

324 (2). ADVANCED EXPERIMENTAL PSYCHOLOGY (3 hrs.)

Experimental problems in a specified area of psychology. Emphasis on hy-

pothesis formation, experimental design and methods of collecting, analyzing and interpreting data. Prerequisite, 209. (Not offered in 1960-61.) *Mr. Coate*

325 (1). SYSTEMS OF PSYCHOLOGY (3 hrs.)

Study of major systems of psychology, with emphasis on critical analysis of central concepts and the relation between theory and empirical data. Open to junior and senior majors and to senior non-majors by permission.

Mrs. Wallach

327 (2). APPROACHES TO SYSTEMATIC BEHAVIOR THEORY (3 hrs.)

Intensive examination of recent developments towards a systematic treatment of behavior within a natural science framework. Stress on the convergence of basic concepts originating with Hull, Skinner, Tolman, Mowrer, Tinbergen, and others. Examination of the range, power, and limitations of behavior theory. Open to juniors and seniors who have taken or are taking two grade II courses in psychology. (Not offered in 1960-61.) *Mr. Coate*

330 (2). SEMINAR (3 hrs.)

Study of a particular problem or area. Topic for the year 1960-61: Conceptual processes. The function of concepts in perceiving, learning, and thinking. Some consideration of language and meaning. Open by permission to juniors and seniors who have taken 102 and at least six additional hours in psychology or six hours in philosophy. *Miss Zimmerman, Mrs. Wallach*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open by permission to seniors.

DIRECTIONS FOR ELECTION

A major in psychology must include 102 and 209. Course 350 may not be included in a minimum major of 24 hours.

Courses supplementary to a psychology major may include courses in education, history of science, philosophy, mathematics, political science, sociology, physics, physiology, and zoology.

A reading knowledge of French and German is desirable for students majoring in psychology.

RUSSIAN

Associate Professor: IRINA BORISOVA-MOROSOVA LYNCH, PH.D. (Chairman)
Instructors: ELLA PACALUYKO, M.A.; KAROL JAN MAGASSY, M.A.

100. ELEMENTARY COURSE (6 hrs.)

Grammar, oral and written exercises, reading of short stories and poems. Open to all students. Three periods. *The Staff*

200. COMPOSITION, CONVERSATION, AND LINGUISTICS (6 hrs.)

Intensive work in written and oral Modern Russian. Studies in the structure of the Russian language. Discussions based on articles in contemporary literary and scientific Russian periodicals and reviews. Prerequisite, 100, or the equivalent acceptable to the department. Two periods and laboratory.

Mrs. Lynch, Miss Pacaluyko

201 (1). LITERATURE IN TRANSLATION: ROMANTICISM AND REALISM (3 hrs.)

For description and prerequisite, see Interdepartmental 201. *Mr. Magassy*

202 (2). LITERATURE IN TRANSLATION: MODERN PERIOD (3 hrs.)

For description and prerequisite, see Interdepartmental 202. (Not given in 1960-61.)

203. INTRODUCTION TO RUSSIAN LITERATURE (6 hrs.)

Reading of selections from Pushkin, Chekhov, Turgenev, Tolstoy and others, and study of their political and historical background. Intensive work in translation, composition and oral expression. The first semester may be taken independently. Prerequisite, 102 or 200. *Mrs. Lynch*

301. LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES (6 hrs.)

Study of masterpieces of Russian literature in their intellectual setting. Works chosen from the following writers: Pushkin, Gogol, Turgenev, Goncharov, Tolstoy, Dostoyevsky, Chekov, Gorky. The Soviet writers. The first semester may be taken independently. Prerequisite, both semesters of 203. (Not given in 1960-61.) *Mrs. Lynch*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to qualified students. *Mrs. Lynch*

DIRECTIONS FOR ELECTION

The College does not offer a major in Russian language and literature.

SOCIOLOGY AND ANTHROPOLOGY

Professor: BARTLETT HICKS STOODLEY, PH.D.
Associate Professor: ALLAN WARDELL EISTER, PH.D. (Chairman)
Assistant Professor: LEILA ALINE SUSSMANN, PH.D.
Instructor: EDWIN MICHAEL SCHUR, PH.D.

102 (1), (2). INTRODUCTION TO SOCIOLOGY (3 hrs.)

Analytical study of groups, institutions, and societies. Social life in relation to biological, psychological, and geographical conditions. Social stratification and social change. Open to all undergraduates. *The Staff*

103 (2). AMERICAN SOCIETY (3 hrs.)

Concrete analysis of American society employing the concepts developed in 102. Impact of technological development, population growth, racial and ethnic diversity on institutions, groups, class structure, and community organization. Normal sequel to 102. Prerequisite, 102. *The Staff*

104 (2). GENERAL ANTHROPOLOGY (3 hrs.)

An introduction to man's place in nature, his physical history, and physical varieties; the nature of culture; some major phases in the growth and spread of cultures; the relation between culture and personality. Prerequisite, 102, or by permission. *Mr. Eister*

206 (1). APPLIED ANTHROPOLOGY (3 hrs.)

The use of anthropological theory and techniques in the study of such contemporary social problems as the administration of dependent peoples and other situations involving directed cultural change. Open to sophomores, juniors, and seniors who have taken one course in the department, or Political Science 100, or Economics 101. (Not offered in 1960-61.)

207 (2). LABOR ECONOMICS (3 hrs.)

For description and prerequisite, see Economics 207.

210 (1). Racial and Ethnic Minorities in the United States (3 hrs.)

An analysis of the problems of racial and ethnic groups in American society. Systematic study of adjustment mechanisms of selected racial, religious, and immigrant minorities, with special emphasis on Negro-white relations. Field work problems. Prerequisite, six hours in the department. *Miss Sussmann*

211 (1), (2). Introduction to Social and Economic Statistics (3 hrs.)

For description and prerequisite, see Economics 211. Counts in the major but not as prerequisite for later election.

212 (1). Sociology of Religious Institutions (3 hrs.)

Social factors in the origin and development of religious conceptions and practices. Types of religious leaders and leadership of religious organizations. Functional relationships between religious systems and other parts of the culture and social organization of selected societies. Prerequisite, six hours in the department. *Mr. Eister*

222 (2). The Family (3 hrs.)

A study of the American family as a primary group and as a social institution. Impact of the family on its individual members and its relation to the community. Comparative analysis of family structures in several cultures and of the factors affecting maintenance or change. Prerequisite, six hours in the department. *Mr. Schur*

225 (2). Social Stratification (3 hrs.)

A study of class in the United States; examination of systematic differences in social prestige, power and wealth. Value systems. Causes and consequences of social mobility. Changing patterns of recruitment into elite groups. Theories of the causation of class differentiation. Prerequisite, six hours in the department. *Miss Sussmann*

230 (2). Society and Self (3 hrs.)

Social structure and processes with relation to the self studied in comparative perspective. Social factors in the life cycle. Institutionalization of goals, attitudes, and ideas. Prerequisite, six hours in the department. *Mr. Stoodley*

235 (1). Public Opinion and Mass Media of Communication (3 hrs.)

An analysis of mass media of communication such as newspapers and television. Their relation to and effect upon modern American society. Prerequisite, six hours in the department. *Mr. Stoodley*

302 (1). Social and Cultural Change (3 hrs.)

Processes of change in human behavior, culture, and social structure in historical perspective. Theories of social change such as those of Condorcet, Marx, Weber, Ogburn, Toynbee. The bearing of such theories upon specific cases of technological, ideological, and structural change. Open to seniors who have taken 102 and are majoring in any department in Group II. *Mr. Eister*

303 (2). The Modern Community (3 hrs.)

The formation of modern cities, their growth and structural development. The urban way of life and its problems. The emerging metropolitan community.

Open to juniors and seniors who have taken one grade II course in the department, or Economics 210 or 301. *Mr. Eister*

309 (2). COMPLEX ORGANIZATIONS AND BUREAUCRACY (3 hrs.)

Rise and operation of large-scale formal organizations such as industrial establishments, labor unions, hospitals; analysis of them in terms of roles, authority, morale. Occupations and bureaucracy. Open to juniors and seniors who have taken six hours in the department, or Economics 210, or Political Science 203. (Not offered in 1960-61.)

319 (2). MODERN SOCIOLOGICAL THEORY (3 hrs.)

Assumptions relevant to current sociological theory. Development of sociology as a field. Examination of the systematic theories of such sociologists as Marx, Durkheim, Max Weber, and Parsons. Open to juniors and seniors who have taken six hours of grade II. *Mr. Stoodley*

323 (1). CRIMINOLOGY (3 hrs.)

Crime, deviant behavior and society. Social factors related to criminal, delinquent, and normal behavior. Punishment and rehabilitation. Emphasis on research projects. Open to juniors and seniors who have taken nine hours in the department or Psychology 210 or 309. *Mr. Stoodley*

325 (1). SEMINAR. RESEARCH IN SOCIAL STRUCTURE (3 hrs.)

An introduction to the way sociologists collect, analyze and theorize about data through participation in a class research project. Topic for 1960-61: the student culture in several high schools as it affects academic achievement and aspirations to go to college. Prerequisite, nine hours in the department or by permission. *Miss Sussmann*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

Majors should consult a member of the department concerning sequences of courses in sociology and related courses in other departments. Related courses may include courses in economics, education, history, philosophy, political science and psychology.

SPANISH

Professor: JUSTINA RUIZ-DE-CONDE, LIC. EN DERECHO, PH.D.
Associate Professor: CONCHA BRETÓN, DOCTORA EN LETRAS (Chairman)

Lecturer: BLANCHE DE PUY, M. LITT.

Courses of the department are normally conducted in Spanish; oral expression is stressed.

Attention is called to the opportunities for residence in the Spanish Corridor of Wellesley College, and for study in the summer school of Middlebury College. Qualified students may also take advantage of the Junior Year in Spain. See page 30, The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish. The teaching method stresses the intensive oral approach. Open to students who do not present Spanish for admission. Three periods and laboratory. *The Staff*

102. INTERMEDIATE SPANISH (6 hrs.)

A thorough, accelerated review of grammar and related language skills with intensive oral-aural practice; reading from modern Spanish and Hispano-American authors with emphasis on vocabulary building, oral and written expression. Three periods and laboratory. Prerequisite, two admission units in Spanish, or 101. Open by permission to Romance language majors without prerequisite. *Miss Bretón, Miss De Puy*

103. SPOKEN SPANISH (2 hrs.)

Intensive oral-aural practice in the common speech patterns of the Spanish language. Emphasis on pronunciation, intonation, and diction. Aim: to establish correct habits and increase fluency. One period and laboratory. Either semester may be taken independently. Prerequisite, 101, or the equivalent. *Miss De Puy*

104. REPRESENTATIVE MODERN AUTHORS (6 hrs.)

A study of literary trends of the 19th and 20th centuries. Constant practice in the written and spoken language. Prerequisite, three admission units in Spanish, or by permission. Two periods and laboratory. *Mrs. Ruiz-de-Conde*

200 (1). TECHNIQUES OF TRANSLATION AND INTERPRETATION (1 hr.)

Theory and practice of translation and interpretation. Analysis of problems, intensive work in vocabulary, language structure, and semantics. One class period a week. Prerequisite, 102 or 104. (Not given in 1960-61.) *Miss De Puy*

201 (1). ORAL AND WRITTEN COMMUNICATION (3 hrs.)

Intensive practice in conversation and writing. Aim: to increase fluency and accuracy in the use of modern idiomatic Spanish. Two periods. Prerequisite, same as for 200. *Miss Bretón*

202 (2).* INTRODUCTION TO HISPANO-AMERICAN CIVILIZATION (3 hrs.)

An historical consideration of the culture of one or two Hispano-American countries with emphasis on their literature and other arts. For 1961-62: Mexico. Prerequisite, same as for 200. (Not offered in 1960-61.) *Miss De Puy*

204. A HALF CENTURY OF MODERN SPANISH LITERATURE (6 hrs.)

From "la Generación del '98" to the present. Special study of the works of Unamuno, Valle Inclán, Azorín, Antonio Machado, Juan Ramón Jiménez, Ortega y Gasset, García Lorca. Prerequisite, same as for 200. By permission either semester may be counted as a semester course. *Miss De Puy (1), Miss Bretón (2)*

* Offered in alternate years.

206. MAIN CURRENTS OF SPANISH LITERATURE (6 hrs.)

The study of outstanding works and themes which express the Spanish conception of man and the world. Prose and poetry chosen from significant periods of Spanish literature. Prerequisite, 104, or by permission 102.

Mrs. Ruiz-de-Conde

300 (1). ADVANCED ORAL COMMUNICATION (1 hr.)

Practice in conversation, oral reports, discussion based on study of newspapers, periodicals, and other contemporary materials. Prerequisite, six hours of grade II. *Mrs. Ruiz-de-Conde*

301 (1). DRAMA OF THE SEVENTEENTH CENTURY (3 hrs.)

The characteristics of the Spanish drama of the Golden Age. Analysis of ideals of this period as revealed in the drama. Representative masterpieces of the great dramatists: Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have taken six hours of grade II, three of which should be in literature. *Miss Bretón*

302 (2). CERVANTES (3 hrs.)

Study of Cervantes and his work, representing the culmination of the novel in Spain and the opening of a new era in the history of the European novel. Reading of *Novelas Ejemplares;* analysis and discussion of *Don Quijote.* Prerequisite, same as for 301. *Mrs. Ruiz-de-Conde*

304. SPANISH POETRY (6 hrs.)

A study of the principal movements and outstanding poets. Open to seniors who have taken at least one course of grade III. (Not offered in 1960-61.)

306 (2).* MODERN HISPANO-AMERICAN LITERATURE (3 hrs.)

Reading and discussion of representative works in modern literature; study of the main literary currents; analysis of present-day trends in prose and poetry. Prerequisite, same as for 301. History 214 is strongly recommended as background for this course. *Miss De Puy*

309 (2).* SEMINAR. SPANISH CIVILIZATION (3 hrs.)

The development of political, social, and artistic life in Spain. Parallel readings and papers. Prerequisite, same as for 301. (Not offered in 1960-61.)

Miss Bretón

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open, by permission, to seniors who have taken six hours of grade III in the department.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 204, 206, and grade III courses (except 309).

Course 101 counts for the degree but does not count toward a major.

Students majoring in Spanish should ordinarily include 201, 206, 301, 302, and six additional hours of grade III work, and History 214.

* Offered in alternate years.

Related courses in art, French, geography, history, Italian, philosophy, political science, or sociology are suggested.

Students interested in Latin American studies should consult the chairman to plan a major with emphasis on this area and with appropriate related work in geography, history, or political science.

SPEECH

Assistant Professor: VIRGINIA ROGERS MILLER, M.A. (Chairman)
Instructor: CARY CLASZ, M.F.A. (Technical Director of the Theatre)

Lecturer: PAUL ROGERS BARSTOW, M.F.A. (Director of the Theatre)

SPEECH CONFERENCE (No credit)
Mrs. Miller, Miss Clasz

102 (1). FUNDAMENTALS OF SPEECH (3 hrs.)

Introduction to the field of speech as an art of communication. Emphasis on the phonetic and psychological bases of speech. Practice in oral interpretation of literature and introduction to speech making. Open to all undergraduates. *Mrs. Miller*

103 (2). SPEAKING AND DISCUSSION (3 hrs.)

A study of the forms used in speaking: description, narration, explanation, persuasion. Practice in organizing ideas for oral discussion. Open to all undergraduates. *Mrs. Miller*

202 (1). PUBLIC SPEAKING AND DEBATE (3 hrs.)

Emphasis on analysis and criticism of types of speeches. Practice in speech making, round table, panel discussion, debate, and open forum. Open to freshmen and sophomores who have taken 102, or 103, or by permission, and to juniors and seniors without prerequisite. *Mrs. Miller*

203 (2).* ORAL INTERPRETATION OF LITERATURE (3 hrs.)

Analysis of and practice in oral interpretation of various forms of literature through the study of selected material from prose, poetry and drama. Prerequisite, same as for 202. *Mrs. Miller*

204 (2).* PHONETICS (3 hrs.)

A study of phonetics with reference to American English. Use of the international phonetic alphabet; analysis of the phonetic and phonemic structure of English; comparison of the dialects of American English. Prerequisite, one course in the department or by permission. (Not offered in 1960-61.) *Mrs. Miller*

205 (1). SHAKESPEARE IN THE THEATRE (3 hrs.)

Study of production of Shakespeare's plays in the theatre; particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 202, or English 215, or by permission. (Not offered in 1960-61.) *Mr. Barstow*

* Offered in alternate years.

208 (1). MODERN THEATRE (3 hrs.)

Study of innovations in theatrical form and staging developing from the "new" theatre of Ibsen and his successors; revolution and development in 20th century theory and practice as exemplified in the works of representative playwrights. Reports, and scenes performed for class criticism. Prerequisite, same as for 202. *Mr. Barstow*

209. PRINCIPLES OF THEATRE ART (6 hrs.)

Historical and critical study of the development and practice of the theatre arts. Dramatic literature in relation to the play in performance. Historical periods and styles; staging and design; primary emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 202. (Not offered in 1960-61.) *Mr. Barstow*

210.* HISTORY OF THE THEATRE (FIFTH CENTURY B.C. TO THE PRESENT) (6 hrs.)

Study of theatre structure, crafts and practices, with emphasis on acting and production styles, as these relate to major developments in dramatic literature. Prerequisite, same as for 202. *Mr. Barstow*

DIRECTIONS FOR ELECTION

Although the College does not offer a major in Speech, a student may elect three or six hours of grade I work and a maximum of 12 hours of grade II work in the department.

At the opening of the college year freshmen and transfer students are asked to attend an individual conference at which an analysis of the student's speech, voice, and ability to communicate orally is made. For those who would benefit from instruction, the most helpful course or courses will be suggested; for those who do not wish to elect a course, individual or small group conferences will be recommended. If any student has a genuine disability, remedial work will be required.

A student interested in theatre studies should consult the Director of Theatre and the chairman of her major department to plan a field of concentration which emphasizes subjects which are important for an understanding of the theatre.

ZOOLOGY AND PHYSIOLOGY

Professors: HARRIET CUTLER WATERMAN, PH.D.; GLADYS KATHRYN MCCOSH, PH.D.; EVA ELIZABETH JONES, PH.D.; MARY LELLAH AUSTIN, PH.D.; LOUISE PALMER WILSON, PH.D. (Chairman)

Associate Professor: VIRGINIA MAYO FISKE, PH.D.

Assistant Professor: ALICE LOUISE BULL,[1] PH.D.

Instructor: JOCELYN MARY TAYLOR, PH.D.

Lecturer: MARGARET ELLIOTT HOUCK, M.S., CURATOR OF THE MUSEUM

Graduate Assistants: LILY CHEN, B.S.; MARY FRANCES DOWNEY, B.A.; JOAN LUCILLE MAZZIO, B.A.; JOAN MARIE CLIDDEN, B.A.; MARGARET RULE MANNING, B.S.; NANCY ROSE MORELLO, B.A.

Custodian: FRANCES KNIBBS FOLSOM

* Offered in alternate years.

[1] Absent on leave.

101. The Biology of Animals (6 hrs.)

A course designed to give an intelligent understanding of animal life and of the place of man in the world of living things, of what an animal is and of evolutionary sequences as provided by study of a series of forms of increasing complexity from one-celled animals through vertebrates. Lectures and discussions on evidences and factors of evolution and on heredity. Open to all undergraduates, except those who have taken 102 or 103. Five periods of lecture, discussion and laboratory. *Miss McCosh, Miss Austin, Miss Taylor, Mrs. Houck*

102. Principles of Zoology (6 hrs.)

A course designed for students who already have some scientific knowledge of animal life. A consideration of important biological principles and of man's place in nature based on a study of invertebrate and vertebrate animals. In the second semester, special emphasis on evolution and heredity. Recommended for students who have offered for admission a course in biology largely on animals which included careful dissection of several forms. Open by permission of the Dean of Freshmen. Five periods of lecture, discussion and laboratory.
Mrs. Wilson, Miss Taylor

103. An Introductory Course in Biology (6 hrs.)

For description and prerequisite, see Interdepartmental 103.

202 (1), (2). Basic Vertebrate Anatomy (3 hrs.)

The fundamental morphology of vertebrates, illustrated by some laboratory studies of the dogfish and a thorough dissection of the cat. Open to sophomores who have taken 101, 102, or 103 and to juniors and seniors without prerequisite. Not to be elected by premedical students. Five periods of lecture, discussion and laboratory. *Miss Waterman*

203. Comparative Vertebrate Anatomy (6 hrs.)

The comparative morphology of vertebrates, with emphasis on evolutionary changes leading from the structures of primitive fishes to those of the human body. Thorough dissection of dogfish, necturus, and cat included in laboratory work. Prerequisite, same as for 202. Five periods of lecture, discussion and laboratory. *Miss Waterman*

204 (1). Introductory Animal Ecology (3 hrs.)

Animals in their natural surroundings. Their behavior, life histories, relationship to their environment and to each other. Economic and medical significance of ecological knowledge. Field studies of animal communities in nearby ponds, meadows, and woodlands. Prerequisite, same as for 202. Five periods of lecture, discussion and work in the field or laboratory. *Miss McCosh*

301 (2). Advanced Animal Ecology (3 hrs.)

Selected topics dealing with such subjects as zoogeography, factors affecting natural populations, social behavior, navigation and migration of animals, conservation of wildlife. Special consideration of social insects, amphibians, birds, and mammals. Prerequisite, 204 or by permission. Five periods of lecture, discussion and work in the field or laboratory. *Miss McCosh*

303 (1). HISTOLOGY AND HISTOLOGICAL TECHNIQUE (3 hrs.)

A study of the microscopic structure of tissues and organs. Emphasis on the relation of structure and function. Some training in preparation of tissues for microscopic study. Open to juniors and seniors who have taken or are taking 202, 203, 204 or 308. Five periods of lecture, discussion and laboratory.

Miss Jones

304 (2). EMBRYOLOGY (3 hrs.)

The development of an individual from its origin as a fertilized egg through the formation of the principal organs and systems. Laboratory work chiefly on the chick and the pig. Open to juniors and seniors who have taken or are taking 202, 203, 204, or 308 and to sophomores who have taken 202 or 204. Five periods of lecture, discussion and laboratory. *Miss Jones*

305 (2). SEMINAR. DEVELOPMENT OF MODERN ZOOLOGY (3 hrs.)

A study of the evolution of modern zoology from its early beginnings in representative periods of the past. Problems in several present-day fields of investigation used to illustrate certain trends in modern biological research. Open to juniors and seniors who have taken 12 hours in the department, and to others by permission. *Miss Austin*

306 (1). GENETICS (3 hrs.)

The principles of heredity, based on the cytological and genetical evidence found in animals; the application of these principles to human inheritance. Class work supplemented by a few breeding tests with Drosophila. Prerequisite, same as for 305. Three periods. *Miss Austin*

308. PHYSIOLOGY (6 hrs.)

A study of general physiological processes. Simple physical and chemical studies of living matter. Observations of more complex physiological processes: nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities. Prerequisite, one course in the department and Chemistry 101 or 103. Five periods of lecture, discussion and laboratory.

Mrs. Fiske

310 (2). ADVANCED HISTOLOGY (3 hrs.)

Study of organs not included in 303. Individual problems and reports on histological research. Prerequisite, 303. Five periods of lecture, discussion and laboratory. *Miss Jones*

312 (2).* PHYSIOLOGY OF NUTRITION (3 hrs.)

A study of the foods necessary for the normal functioning of the body and the physiological processes by means of which they are utilized for growth, repair, and release of energy. Normal and faulty nutrition compared by feeding experiments with animals. Prerequisite, or corequisite, 308. Chemistry 205 recommended, but not required, as a prerequisite. Five periods of lecture, discussion and laboratory. *Mrs. Wilson*

* Offered in alternate years.

316 (2).* Physiology of the Endocrine Glands (3 hrs.)

The chemical control of the animal organism through the secretions of the endocrine glands. Individual problems. Prerequisite or corequisite, 308. Five periods of lecture, discussion and laboratory. (Not offered in 1960-61.)

Mrs. Fiske

320 (1). Seminar (3 hrs.)

Intensive study of one problem or a series of related problems. Critical study of experimental methods and analysis of results. Emphasis on source material. Subject for 1960-61: Recent advances in physiology. Open by permission to seniors majoring in zoology. *Mrs. Fiske*

350. Research or Independent Study (3 or 6 hrs.)

Open by permission to juniors and seniors.

Directions for Election

A knowledge of chemistry is required of all students taking work in physiology and is desirable for all students majoring in the department.

The department will admit properly qualified freshmen and sophomores to Zoology 202, 203, or 204 without examination but by special permission after consultation with the chairman of the department.

Scholarship

A scholarship is open to undergraduates at the Marine Biological Laboratory at Woods Hole (or at a biological field station approved by the student's major department). Students should consult the chairman of the department before February 15.

Placement and Exemption Examinations

The department will offer an examination for exemption from zoology as a distribution requirement to any student who offers for admission a year course, taken in either the junior or senior year and carried at a grade of B or better, and who presents an acceptable laboratory notebook when applying for the examination.

* Offered in alternate years.

ADMISSION

ADMISSION OF FRESHMEN

Each fall and spring eight members of the Academic Council meet as the Board of Admission to select the incoming freshman class. They regard as essential for admission intellectual ability, interest in learning, good character and health. From the candidates who meet these essentials they try to select a class which will have a complementing variety of individual interests and will represent many different public and independent schools throughout the United States and abroad. The Board of Admission reserves the right to determine in all cases which candidates shall be admitted.

As evidence of a candidate's ability the Board considers her secondary school record, the recommendation of her school, information about her independent reading, her extracurricular and special interests, intelligence tests which she may have taken, and her record on the required College Board Entrance Examinations. In addition, each candidate must have an interview. This may be held at the College or in the home or school region of the candidate. If she plans to visit the College, she should arrange for an appointment considerably in advance to be sure that time is reserved. Otherwise, she should write to the Director of Admission for the name and address of the college interviewer in her region.

Secondary School Preparation

In general, candidates are expected to complete a full four-year secondary school course. A sound program of studies in preparation for entrance to Wellesley College includes four years of English grammar, composition, and literature; Latin or Greek and a modern foreign language, one of the preceding carried, if possible, through at least a third year; one or more of the following fields of history: American, Ancient, Medieval, Modern European; three years of college preparatory mathematics; one or more laboratory sciences: biology, chemistry, physics. Electives may be offered in additional courses in the subjects listed above or in, for example, history or fundamentals of music, history or appreciation of art, or Biblical history. Admission credit is not given for courses in typewriting, although this skill is helpful to the college student and the Board of Admission urges candidates to learn to typewrite in secondary school or during a summer vacation.

The Director of Admission will comment on the suitability of the program of any candidate who wishes to submit it in advance of formal

application for admission. She welcomes correspondence with students, their parents, and school advisers on any matter concerning admission to the College and welcomes information from schools about new courses and curricular plans. Because secondary school curricula vary widely, some candidates may be unable to study some of the subjects recommended for admission. Other candidates may be ready for college work before completion of four years of secondary school. These students are required to have their admission interviews at the College. The Board of Admission is glad to consider the applications of candidates whose school work differs in extent or in program from the normal preparation for college, provided that there is evidence of continuity and sound work in the study of basic subjects.

Early Decision Plan

This optional plan of admission is designed to give well qualified applicants, who by the end of the junior year in secondary school have made their choice of college, an opportunity to have a decision on their applications in December rather than in May.

Students are eligible for Early Decision who apply to Wellesley College and to no other college, who agree to file no other application until they receive a decision, and who agree to make a non-refundable deposit of $200 by February 15 if they are accepted and plan to enter. This deposit will be applied in equal portions to the first and second semester fees of the first year. All candidates for admission under this optional plan must complete a form entitled "Request for Early Decision" before *October 1* of the senior year.

Application for Admission

Admission forms may be secured from the Director of Admission. A fee of fifteen dollars must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted. Candidates must apply not later than *February 1* of the year in which they plan to enter college. A student who wishes to apply under the Early Decision Plan should make application before *October 1* of her senior year in high school. Early Decision Plan candidates will receive notices concerning admission in December; candidates applying under the regular admission plan will be notified in May. All accepted candidates will receive in May instructions for choosing their academic programs and their dormitory rooms.

Although an early application is not a factor in determining admission, it is one of the factors considered in assigning dormitory rooms to freshmen.

College Board Entrance Examinations

Candidates for admission to Wellesley must take the Scholastic Aptitude Test, both the verbal and mathematical sections, and three Achievement Tests of the College Entrance Examination Board. Among the three Achievement Tests they must take the test in English Composition and two others, to be chosen from foreign languages, social studies, science, and mathematics. They are advised to choose one test in a foreign language and one test in either social studies, mathematics, or a science. They may not offer the spatial relations test. Candidates under the regular plan must take the Scholastic Aptitude Test in December or January, and the Achievement Tests in March of their senior year in school. Early Decision Plan candidates must take both the Scholastic Aptitude and the three Achievement Tests during the junior year. They may take the Scholastic Aptitude Test in either March or May but must take the Achievement Tests in May. The August tests are unsuitable.

All College Board tests are designed to be taken without special preparation. Candidates applying under the regular plan who wish to take the Scholastic Aptitude Test for guidance purposes at the end of the junior year are encouraged to do so. In this case the College Entrance Examination Board should be asked to forward the results of the preliminary tests to the College. The Director of Admission can then give additional assistance to candidates who seek advice about their candidacy.

Application for the College Entrance Examination Board Tests

Each candidate for admission is responsible for making proper application to take the College Board tests and for having the results of the tests sent to the College.

Candidates living in states from Montana to New Mexico and west should send inquiries to the College Entrance Examination Board, P.O. Box 27896, Los Angeles 27, California. Candidates from all other states and candidates applying from foreign countries should send inquiries to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. The College Board sends a copy of its Bulletin of Information to every candidate requesting an application blank.

Applications and fees should reach the College Board offices not later than the dates specified below:

Dates of Tests	Applications and Fees Due
December 3, 1960	November 5, 1960
January 14, 1961	December 17, 1960
February 4, 1961	January 7, 1961
March 18, 1961	February 18, 1961
May 20, 1961	April 22, 1961

Financial Aid

Candidates who will require financial assistance in order to attend Wellesley should read carefully the information on pages 117-121.

Advanced Placement and Credit

A student who has taken one or more advanced courses in secondary school will be given college credit for each course in which she receives a score of 4 or 5 on the Advanced Placement Test of the College Entrance Examination Board. She will be exempted from the required English course at Wellesley if she presents an English score of 4 or 5.* Once having received college credit for an advanced course taken in secondary school, the student is expected to accept advanced placement if she elects to continue study of the subject in college and to carry the normal number of courses each year.

Any student who receives college credit for two or three advanced courses taken in secondary school and who wishes to plan to complete the requirements for the B.A. degree in less than four years should consult the Dean of Freshmen during the first semester of her freshman year.

Students entering under the Advanced Placement Program who are not eligible to receive college credit and other students who have not participated in this program in secondary school but are unusually well prepared for college work in certain subjects may be admitted to advanced courses in the freshman year if the department concerned finds their preparation acceptable. Students interested in being considered for advanced placement should write to the Dean of Freshmen during the summer for advice about their electives and for information about examinations which are required in some fields to achieve advanced placement.

Examinations for exemption from certain requirements for the degree are described on page 29.

ADMISSION OF TRANSFER STUDENTS

Wellesley accepts a limited number of students who enter as sophomores or juniors. Students wishing to transfer who have maintained excellent records elsewhere and are strongly recommended by their dean and instructors may file applications.

Requests for permission to apply should be made to the Director of Admission not later than April 1 of the year in which admission is sought. The selection of transfer students is made in June and in August. Each request for permission to apply should be accompanied by a statement of reasons for wishing to transfer to Wellesley, the student's field of interest

* In English and in foreign languages in which two scores are presented neither score may fall below 4 if college credit is to be given.

or probable major, a transcript of school and college records, and the names of a dean and two instructors who know the applicant well. Also, the applicant should arrange directly with the College Entrance Examination Board to send to the Director of Admission her scores on all College Board tests which she has taken. If she has never taken the Scholastic Aptitude Test of the College Board, it is her responsibility to arrange *early* to take it and to have the results sent to the Director of Admission. (See page 110.)

No application will be supplied until all of the above material has been reviewed. Admission forms will be sent to those candidates who can be encouraged to apply. They should be returned promptly together with a fee of fifteen dollars. The fee is not refunded if a candidate withdraws her application or is not admitted. The Board of Admission reserves the right in all cases to determine which candidates shall be admitted.

Credit for courses completed at another college is tentatively granted early in the first year of residence at Wellesley, but determination of credit, which depends upon the quality of the student's work at Wellesley, is not made until the end of the year.

READMISSION

A student who has withdrawn from the College is not automatically readmitted. She should make application for readmission to the Secretary of the Committee on Student Records. A non-refundable fee of fifteen dollars must accompany the application.

ADMISSION OF FOREIGN STUDENTS

Students living in foreign countries who wish to enter Wellesley College are asked to make application well before February 1 of the year in which they wish to enter college. The application should be accompanied by a letter from the student giving her reasons for wishing to study in the United States and a detailed statement of her previous educational experience or a transcript of her record. Inquiries concerning admission and scholarships should be sent to the Foreign Student Adviser.

ADMISSION OF GRADUATE STUDENTS

Wellesley accepts a limited number of candidates for the degree of Master of Arts. A summary of requirements for the Master's degree appears on page 33. Interested students should write to the Chairman of the Committee on Graduate Instruction.

GENERAL INFORMATION AND REGULATIONS

REGISTRATION

Each student must register in her residence hall at the beginning of each college year. The time of registration is stated in the calendar on page 6.

FRESHMAN ORIENTATION

Entering students come into residence two days before most upperclassmen. During this period they meet their class dean, other officers of the College, and some upperclassmen who answer their questions and help them to become acquainted with the activities and traditions of the College. They visit the library, take physical examinations and appropriate placement tests, and have opportunity to consult their deans should changes in their programs of study seem advisable. Special events of various types are scheduled for entering students during their first week at Wellesley.

ADVISING OF STUDENTS

Class deans are the interpreters to students of the academic and other policies of the College and are ready to discuss informally with individual members of their classes any academic or personal problem which the student may have. The deans are officers of the College and members of the faculty who are relieved of some of their teaching duties. They keep in touch with the faculty, heads of house, doctors, and student leaders in order to help establish sound policies for the life of the community and to be of maximum service to individual students.

During the first two years when students are becoming acquainted with the faculty and with one another, each class has a continuing dean. The Dean of Students aided by faculty advisers serves as class dean for juniors and seniors. Students are invited to turn to the deans both for immediate help and for information about specialized services, because the deans are the persons who know best all of the resources which the College has to assist the student in her academic, personal, religious, health, and employment interests.

ACADEMIC STANDARDS

Each student is given full responsibility for her attendance at classes and for the timely preparation of her work. In case of illness or other difficulty she should consult her dean for assistance in making special arrangements for her studies.

The student is expected to prepare all her work with integrity and to abide scrupulously by the regulations of the faculty concerning academic work. The College attaches major importance to this. A student who finds herself in doubt as to a proper method or course of action should consult her instructor or dean immediately.

At the end of each semester the academic record of each student, including grades, evidence of interest in study, and potential for further achievement, is reviewed. A student may be excluded from the College if she has given little evidence of interest or growth in her work or if she has fallen below diploma grade standing. If the record, although poor, shows promise, the student is warned and efforts are made to help her improve it. Because of the selective policies of admission, a student who has made consistent effort to meet the requirements rarely has to be excluded. Ordinarily no student may enter the senior year who is below diploma grade standing or has failed to complete the foreign language requirement.

RESIDENTIAL LIFE

Residence Halls

Wellesley maintains fourteen residence halls. Students in proportionate numbers from all four classes live in the twelve large halls, each of which has its own living rooms and dining room. Approximately one hundred freshmen live in the two smallest dormitories and share a nearby dining hall. Each hall has a Resident Head, interested in the welfare of the individual student, who with the students in her house seeks to create an environment which invites study and intellectual discussion as well as relaxation and entertainment of friends.

Rooms are assigned to entering students by the Director of Residence, who tries to maintain in each hall representative diversity in backgrounds. Regulations for moving from one hall to another at the end of the year may vary from time to time. When moves are made, they are determined by lot. Only juniors are promised in advance that if they wish they may continue in the same residence hall for the following year.

Rooms are equipped with essential furniture. Students are expected to furnish blankets and couch covers, and to furnish bed linen and towels or rent them from a supply company designated by the College. A list of permissible additions is sent to each entering student. It should be noted that the College accepts no responsibility for the safety of personal possessions of the student. She may leave her possessions at her own risk in her room or in storage areas designated by the College. Valuable items should be left at home or should be insured.

The College reserves the right to inspect any room at any time and to dispose of articles remaining unclaimed after due notice or after a student has left college, either by withdrawal or graduation.

In general, residence halls are closed during Christmas and spring vacations. One hall is kept open on a *per diem* basis for the convenience of students. A Resident Head is in charge of the vacation house.

Rules of Residence

Residence in college halls is required of all unmarried undergraduate students except those who live with their parents near the College. Each student must keep her room clean and give two to three hours a week to light housework, which is scheduled by student Heads of Work. Once assigned a room, the student may expect continuing opportunity to reside at the College, provided her academic progress is considered satisfactory and provided she upholds high standards of civic and personal morality as well as the specific rules of residence which are stated in the College Government Handbook.

Married students are not allowed in the freshman or sophomore classes. A junior or senior who has lived in residence at the College for two years and who then marries may apply to the Dean of Students for permission to continue her studies at Wellesley as a non-resident student. Permission is usually given to a student in good academic and social standing and whose new home is within thirty miles of the College. Ordinarily a married junior or senior may not live at the College, because the College believes that women should postpone marriage until they are ready and able to establish their own homes. In an exceptional case and if permission has been requested and received from the Dean of Students at least one month before the marriage, a married junior or senior may live at the College. It should be noted that the College does not have funds for financial aid for married students.

HEALTH PROVISIONS

The College emphasizes preventive medicine. The services of the college physicians and psychiatrists are available to students without charge. Campus employees are examined by a college physician. Food is carefully selected by the college dietitian and prepared under her direction. Cleanliness in the residence halls is maintained by the cooperative efforts of College Government and administrative officers.

When a student is admitted to the infirmary as a bed patient, a routine notice is sent to her parents. Each resident student is allowed six free days in the infirmary each year when prescribed by a college physician,

provided that no special service is required. Only three of the free days may be taken at any one time; thereafter an infirmary charge of seven dollars a day is made. Charges for special services are determined in the usual way, according to the type and amount of service rendered.

To supplement the free service, the College strongly recommends purchase of a group student health and accident insurance policy for which it has made arrangements. The insurance gives protection to the student over a twelve-month period whether or not in residence at the College. Information concerning it is sent to parents in the fall.

The college physicians give each entering student a physical examination and study carefully the health information which the College requests of parents and family physicians in connection with admission. This information helps the college physicians to decide whether the student should be placed in remedial or restricted physical activity in the department of Physical Education and may be useful should a student become ill. It also makes possible cooperation with home physicians in continuing necessary treatment. For these reasons the requested information should be complete and accurate; failure to supply full information initially may result later in exclusion from college. Many types of illness and disability are not insurmountable handicaps at Wellesley, but the College cannot supply special diets or encourage the entrance of students who find walking very difficult.

Cooperation with the college physician is a requirement of residence. A student in residence must notify a college physician before consulting a physician outside of the College or before leaving the campus for reasons of health. If she needs medical attention when away from the campus, she should inform her class dean immediately upon her return and take to the infirmary a statement signed by the attending physician.

The proximity of the College to Boston permits early consultation between college physicians and specialists whenever advisable. In case of serious illness parents are notified by telegram or telephone, but the College reserves the right to make decisions concerning operations and other health matters if parents cannot be reached at a time when decision seems imperative.

WITHDRAWAL AND EXCLUSION

A student who plans to withdraw must inform her class dean. The Recorder will then provide a withdrawal blank for the student's parents or guardian to sign. The official date of withdrawal is the date on which the signed blank is returned to the Recorder.

The College reserves the right to require the withdrawal at any time of a student whose academic work falls below its standards or who in the

opinion of the college authorities should not remain at Wellesley. In the latter case no specific reason need be assigned.

EMPLOYMENT OPPORTUNITIES

The Placement Office assists students and alumnae who are interested in employment opportunities. It helps students to obtain summer positions and part-time work in the winter and helps seniors and alumnae to locate positions upon graduation and later in their careers.

During the academic year caring for children provides the largest number of job opportunities. Within the College three exchanges dealing with furniture, books, and food afford regular work for a number of students. Agencies for newspapers, magazines, laundry, and dry cleaning yield substantial returns to some students. Clerical work and other positions are also available, but students are cautioned against depending upon employment during the academic year for any considerable income. Summer opportunities are varied and provide more remuneration.

Students and alumnae may consult the staff and use the vocational library of the Placement Office at any time for information and suggestions concerning present work opportunities and future career possibilities. Lectures and discussions on occupations are arranged for students, and information is made available concerning training courses, apprenticeships, and graduate assistantships. Upon payment of a small fee a senior may register permanently with the Placement Office. The Office arranges interviews for registered students with employers who come to the College and informs senior and alumnae members of various openings; it collects credentials and thereafter keeps up-to-date the papers of each interested registrant to be sent to prospective employers and others upon request.

FINANCIAL AID

The endowment funds of the College for undergraduate scholarships amount to approximately $4,500,000. They include more than two hundred separately endowed funds, each of which bears the name of the donor or of a person whom he wished to honor, and also a large, general fund which supports many awards including the Pendleton Scholarships and the Seven College Scholarships, described below. Total annual awards usually amount to more than $430,000. Of this sum about $350,000 comes from income earned by the endowed scholarship funds of the College, appropriations from current income, and gifts made to the College by alumnae clubs and individuals. About $80,000 comes from endowed funds of the Wellesley Students' Aid Society and gifts to it from alumnae clubs and individuals. These resources make possible awards in the

amount of their need to approximately twenty percent of the student body.

The Committee on Scholarships acts with power in the selection of holders of awards and in determination of the amount of each award. Financial aid is given only to students who require assistance in order to attend the College. The aid may take the form of a gift scholarship, a loan, or a work guarantee; usually it consists of a gift supplemented by a loan and/or work guarantee.

Preference among the accepted candidates for admission who require assistance is given to the students with the best admission credentials. The geographical area from which the applicant comes is also considered. For students in college, awards are reviewed annually and are renewed, provided they are needed, so long as the student maintains a good academic and civic record, except in the case of married students who are ineligible for financial aid. Ordinarily students who receive financial aid work during the summer in order to contribute to their expenses of the following year. Earnings vary with the type of employment, but in general the Committee on Scholarships estimates that a student can earn between $250 and $300 during the summer.

APPLICATION FOR FINANCIAL AID

In making awards to entering students, the Committee on Scholarships considers only those applicants who were registered candidates for admission by February 1 of their senior year in school and who completed in full and presented at the times and places noted below the following two scholarship forms.

One form is the "Wellesley College Application for Financial Aid," a copy of which will be sent to any registered applicant who, no sooner than the fall of her last year in secondary school, requests it in a letter addressed to the Secretary to the Committee on Scholarships. To receive consideration, the form must be filled out *completely* and must be returned to the Secretary by October 1 of the senior year in secondary school by candidates requesting Early Decision, and by February 1 of the year of entrance by all other candidates.

The other form, which asks for a financial statement from parents, is issued by the College Scholarship Service of the College Entrance Examination Board. Anyone may secure a copy by writing to the College Scholarship Service, Box 176, Princeton, New Jersey, unless the parents live in or west of Montana, Wyoming, Colorado, or New Mexico, in which case they should write to Box 27986, Los Angeles 27, California. Copies of this form will also be distributed to secondary schools in the fall of 1959. For the convenience of students who are registered for admission at Wellesley, the Secretary to the Committee on Scholarships will enclose

a copy of the CSS form with the Wellesley College Application for Financial Aid if so requested by a registered applicant. The College Scholarship Service form should be filled out completely and sent before October 1 by candidates for Early Decision, and before February 1 by all other applicants. This form should be sent, not to Wellesley, but to the College Scholarship Service at the address given above. The Service will then forward a copy for confidential use only to the college or colleges which the parents of the applicant designate.

Candidates for admission who have sufficient money for the first year but who expect to need assistance for the later years should inform the Secretary to the Committee on Scholarships by March 1 of the year of entrance. The Committee on Scholarships endeavors to allocate funds so that students to whom scholarships have been awarded may continue to have financial help as needed and merited throughout their course. The Committee must also reserve some funds for students who later may be faced with emergencies and for students who can finance the first year but know from the beginning that later assistance will be needed; hence the request for information if future need is expected. Students who indicate this fact in advance will be given consideration for financial aid in following years ahead of students who know but do not state before entrance that their resources will not carry them through the four years.

Applications from students in college should be filed with the Secretary to the Committee on Scholarships on forms obtained from her office. Instructions concerning applications are posted shortly before the Christmas vacation.

It should be noted that the candidate does not make direct application for a Pendleton Scholarship or for any of the other named scholarships which are within the award of the College (except in the case of Seven College Scholarships). She applies for assistance in general terms. After awards are made, she will be informed in due course of the name of the scholarship which has been assigned to her and of the circumstances which led to its establishment.

Types of Financial Aid

gift scholarships

Most gift scholarships are supported by named funds or are awarded without special designation from the general fund for scholarships. In addition, there are Pendleton Scholarships, Seven College Scholarships, and Town Scholarships.

Pendleton Scholarships. Fifteen of the entering freshmen who receive scholarships may be named Pendleton Scholars. These scholarships are

awarded in memory of Ellen Fitz Pendleton, President of the College from 1911 to 1936. Eight of the Pendleton Scholarships are awarded on a regional basis: New England States, one; Middle Atlantic States, one; Southern States, two; Central States, two; Western States, two. The remaining seven may be awarded to students from any part of the country Stipends vary in terms of need. Entering freshmen do not apply specifically for Pendleton Scholarships.

Seven College Scholarships. Twenty-one scholarships are awarded annually by the Seven College Conference, an informal association of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley. Each college offers one scholarship in each of the following areas: Central States (Colorado, Kansas, Missouri, Nebraska); Southwest (Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas); West (California, Idaho, Oregon, Washington). As with all Wellesley scholarships, the stipends vary according to need and may amount to the full expenses for tuition and residence.

Further information and application blanks for the Seven College Scholarships may be obtained from the Director of Admission. Applications must be filed by January 30 of the year of entrance.

Town Scholarships. The College offers ten tuition scholarships to students who meet the standards for admission and are residents of the township of Wellesley. These tuition scholarships are renewable so long as the student remains of diploma grade standing at the College and continues to reside in Wellesley. Selection of Town Scholars is made by the Selectmen of the Town of Wellesley.

WORK GUARANTEES

Work guarantees assure holders that they will earn $90 to $150 a year toward their fee by working three to five hours a week in the library, academic departments, campus snack bar, etc. Students are selected to hold work guarantees on the basis of proficiency in the work involved, personal qualities, and financial need. In general, these guarantees constitute a part of a larger award.

LOANS AND SPECIAL AIDS

The Wellesley Students' Aid Society was established in the early days of the College by Mrs. Henry Fowle Durant, the wife of the founder, at a time when the College had no scholarship funds. Now the Society works in close cooperation with the College Committee on Scholarships to supplement college awards with gifts and loans. Its scholarship gifts are made for one year at a time to students who have applied to the Committee on Scholarships for financial aid; they are renewable on the same bases as

college awards. The student who receives a gift scholarship from both the College and the Students' Aid Society has all the benefits of a single award and receives more assistance than could be given to her from either source alone.

In addition to funds for scholarship gifts, the Society has loan funds which enable students and their parents to spread the cost of the college education over a longer period than four years. On the basis of individual records and of the financial statements which the student has filed with the Secretary to the Committee on Scholarships, the Society determines who shall have loans and the size of each loan.

The Students' Aid Society also renders personal assistance to students through loans of books and other items and through gifts of clothes and small amounts of money for incidental expenses and emergencies.

FEES AND EXPENSES

The annual, inclusive fee for tuition, board, and room is $2200. This fee represents approximately three fourths of the cost to the College for each resident student; the difference is made up from endowed funds and gifts. The times of payment for resident undergraduate students are as follows:

Standard Plan:

July 10 (for freshmen, June 1*), deposit, not refundable, to reserve a place at Wellesley for the following year. Failure to make the deposit forfeits enrollment for the year.	$ 100
September 10	$1050
February 1	$1050

Alternative Plan:

July 10 (for freshmen, June 1*) (See requirement under Standard Plan)	$ 100
Ten monthly payments, July 10 through April 10, each $211.25	$2112.50

Payments should be sent to the Assistant Treasurer. Because the College necessarily makes commitments in advance for instruction and living arrangements, the parent or guardian is responsible for the entire fee for a semester even if withdrawal or exclusion occurs. The only rebate made by the College in the case of withdrawal or exclusion is a rebate for meals of $15 per week for each remaining *full* week in the academic semester. Fees must be paid before the student may attend classes at the start of the first or second semester, and all college charges must be met before the diploma is awarded. The College reserves the right to revise the fee at the end of any year should conditions make it necessary.

Undergraduate students who wish information concerning non-resident fees should write to the Assistant Treasurer. Graduate students should consult the bulletin on *Graduate Study at Wellesley College* for fees and fellowship opportunities.

Special Fees and Expenses

A non-refundable application fee of $15 is required of all candidates for admission and readmission (see page 112). Infirmary fees for care in excess of the free days allowed by the College are stated on pages 115-116. Fees for instrumental and vocal lessons are stated on page 84. There are no other college fees. The student should plan, however, on an annual expenditure of $50 to $100 for books, supplies, and subscriptions, and at least $150 for incidentals and recreation.

* *Freshmen admitted under the Early Decision Plan* pay $200 by February 1 as a room deposit, and $1000 on September 10 and February 1 or, under the alternative plan, $201.25 per payment.

THE BUILDINGS AND EQUIPMENT

All of the buildings described below are located on the campus, a four hundred acre tract of rolling meadow and woodland which borders on a natural lake one mile in length. The campus contains special plantings in the Hunnewell Arboretum and the Alexandra Botanic Gardens, experimental gardens for students of botany, the Hay Outdoor Theatre, and ample facilities for a wide range of land and water sports.

ACADEMIC AND COMMUNITY BUILDINGS

"College Hall II" is the remaining part of the original College Hall, erected in 1875. After long use as a science building, in 1956 it became the center for student organizations.

Music Hall, erected in 1880, and the adjacent Billings Hall, erected in 1904, have housed the Music Department. In 1958 this department moved to the new Margaret Weyerhaeuser Jewett Music and Drama Building.

Simpson Infirmary was the gift of M. H. Simpson in memory of his wife, who had been a trustee of the College. It was erected in 1881 as a residence hall, later became the infirmary, and now provides living quarters for the college physicians and nurses. In 1942 a new wing containing a 29-bed hospital and a clinic was erected and connected with the old infirmary.

The Houghton Memorial Chapel was presented in 1899 by Miss Elizabeth G. Houghton and Clement S. Houghton as a memorial to their father, William S. Houghton, a trustee of the College. In it are stained glass windows commemorating the founder and several former members of the College, and a famous tablet by Daniel Chester French in memory of Alice Freeman Palmer, Wellesley's second president.

The Whitin Observatory was erected in 1900, the gift of Mrs. John C. Whitin, a trustee of the College. It contains laboratories, darkrooms, and the library of the department of Astronomy. Its extensive research equipment includes six-inch and twelve-inch Clark visual refractors.

Mary Hemenway Hall, the gymnasium, was erected in 1909 when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Mary Hemenway of Boston provided the funds for this building. It contains an indoor gymnasium, offices, and lecture rooms.

The Library Building, erected in 1910 and enlarged in 1916, was the gift of Andrew Carnegie. A new wing constructed in 1957, which doubles its size, and a complete remodeling of the original building, finished in 1958 and including a language laboratory shared by the modern foreign language departments, are the gifts of alumnae and friends. A major contribution was made by David M. Mahood and Mrs. Helen M. Petit as a memorial to Helen Ritchie Petit of the Class of 1928. The Library Building contains approximately 230,000 volumes which include a number of

special collections, among them the English Poetry Collection created by George Herbert Palmer and added to by Katharine Lee Bates, Elizabeth Manwaring, and Sara Teasdale, the Browning Collection, the Plimpton Collection of Italian books and manuscripts, and the Elbert Collection on the Negro in slavery. Two other collections, the Laura Hibbard Loomis Collection of Medieval Literature and the collection on the Far East given by the Mayling Soong Foundation, while not housed separately, enrich the resources of the library. The Rare Book Collection contains manuscripts and a small collection of rare books and first editions which range in time from a copy of the Ratdolt Euclid printed in 1482 to the books issued by the contemporary Grabhorn Press. Another 75,000 volumes are located in the Art, Music, and Science departmental libraries.

THE ANNE L. PAGE MEMORIAL SCHOOL, for boys and girls of three, four, and five years of age, occupies two small buildings, the first of which was erected in 1913. It is equipped with one-way screens enabling students to observe the children effectively without themselves being seen.

FOUNDERS HALL, a classroom building for the humanities, social sciences, and mathematics, was erected in 1919. Dedicated as a memorial to Mr. and Mrs. Henry Fowle Durant, it was built from the Restoration Fund which trustees, faculty, alumnae and friends of the College secured after the College Hall fire.

ALUMNAE HALL, the gift of the alumnae, was built in 1923. It houses the largest auditorium on the campus, a ballroom, and "The Well," the campus snack bar.

SAGE HALL is named in honor of Mrs. Russell Sage, its principal donor. The unit for botany and bacteriology was erected in 1927 and that for zoology and physiology in 1931. In 1956 the building was remodeled and enlarged to provide facilities also for geography and geology. It contains the laboratories, lecture rooms, and offices of the four departments, a library, and a teaching museum and display areas for the departments of Botany and Bacteriology, Geology, and Zoology and Physiology. Equipment for the research of students and faculty includes greenhouses with a range of climates from tropic to desert, a vivarium, an aquarium, and extensive map collections.

HETTY H. R. GREEN HALL, erected in 1931, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices of the College, class and seminar rooms, and the faculty assembly hall. The Galen L. Stone Tower, named for its donor, who was long a trustee of the College, houses a carillon which was the gift of Mrs. Charlotte Nichols Greene.

PENDLETON HALL, erected in 1935, was named at the request of the students in honor of Ellen Fitz Pendleton, president of the College from 1911 to 1936. It contains the laboratories, lecture rooms, libraries,

and offices of the departments of Chemistry, Physics, and Psychology. Extensive facilities and equipment provide opportunity for advanced work in various fields of chemistry, including chemical spectroscopy and instrumental analysis; in optics, electronics, and atomic physics; and in various types of experimental psychology.

The Recreation Building was opened in 1939. It contains game rooms, badminton and squash courts, lounges, and the George Howe Davenport Swimming Pool which bears the name of the trustee who gave generously toward its construction.

The Jewett Arts Center, completed in 1958, is the gift of Mr. and Mrs. George Frederick Jewett, their son, George Frederick Jewett, Jr., and their daughter, Mrs. William H. Greer, Jr. Mrs. Jewett, a trustee of Wellesley College, is an alumna, as is her daughter and as was Mr. Jewett's mother. The Center consists of the Mary Cooper Jewett Art Building and the Margaret Weyerhaeuser Jewett Music and Drama Building.

The Mary Cooper Jewett Art Building contains the museum, classrooms, study rooms and studios, offices and slide collections, of the Art Department and, through the use of a bequest from Mrs. William Hewson Baltzell, a trustee of the College from 1930 to 1938, the Art Library. The museum collection contains choice examples of classical and medieval art; sculptures by Sansovino, Lehmbruck, and Maillol; a famous early Corot and other paintings by such artists as Crespi, Magnasco, Strozzi, Terborch, Cezanne, and Picasso; and, on extended loan, works by Piero di Cosimo, Rubens, Rodin, and Copley.

The Margaret Weyerhaeuser Jewett Music and Drama Building contains the music library of books, scores, and recordings; listening rooms, practice studios, classrooms, and offices of the Music Department, and a variety of musical instruments including a baroque organ, a clavichord, and a harpsichord; also a rehearsal room and workshop for the College Theatre, and an auditorium seating 350 people for art and music lectures, concerts, and experimental theatre.

RESIDENCE HALLS

The fourteen residence halls for undergraduate students compose three groups on the campus. Each group is approximately the same distance from the central academic buildings. In the northwest section are Munger Hall and Hazard Quadrangle, which is formed by four halls, Beebe, Cazenove, Pomeroy, and Shafer. Tower Court, Claflin, and Severance Halls are together on the hill overlooking Lake Waban where the original College Hall once stood. The third group stretches east from Stone and Davis on the lake shore to Bates and Freeman, the newest halls, and to Navy and Dower, which are all-freshman houses.

MUNGER HALL, which houses about 125 students, was given by Miss Jessie D. Munger, of the Class of 1886, in honor of her mother, Gertrude C. Munger. Each of the halls in the HAZARD QUADRANGLE, which is named in honor of Wellesley's fifth president, accommodates about 120 students. BEEBE was made possible by a legacy from Captain John Allen Beebe, a Nantucket sea captain and the father of Alice B. Beebe, of the Class of 1896. CAZENOVE, the gift of Pauline Durant, who with her husband founded the College, bears the name of Mrs. Durant's mother; POMEROY, too, is named for its donor, Mrs. Martha D. Pomeroy, who bequeathed the funds to build it. SHAFER honors the memory of Wellesley's third president.

TOWER COURT, so named because of its tower in the central part separating the two wings and because of its courtyard overlooking the lake, houses approximately 245 students. It was the gift of Ellen Stebbins James. CLAFLIN accommodates about 120 and SEVERANCE 145 students. CLAFLIN is named in memory of William Claflin, governor of Massachusetts and a member of the original corporate body of the College in 1870, while SEVERANCE bears the name of Elizabeth Severance Prentiss, of the Class of 1887, who was the largest individual donor to the building.

STONE and DAVIS HALLS house about 90 students each. The present Stone Hall was built on the site of old Stone Hall, which was made possible by a bequest from Mrs. Valeria G. Stone. John D. Rockefeller, Jr., made generous contributions toward the present Stone and Davis Halls. Olive Davis, for whom Davis Hall is named, was a member of the Class of 1886 and for many years Director of Residence at Wellesley; upon her death she made Wellesley her residuary legatee. BATES HALL is named in memory of Katharine Lee Bates, of the Class of 1880, for many years a professor of English literature at Wellesley, and FREEMAN HALL in memory of Alice Freeman Palmer, Wellesley's second president. Each of these dormitories houses 137 students. Connected with them is the Hart Dining Room, which commemorates Sophie Chantal Hart, long a professor of English composition and by bequest a generous donor to the College. Approximately 110 freshmen live in NAVY and DOWER and share the Hart Dining Room. Navy derives its name from the fact that it was moved to the campus from a Naval Air Station where it had been quarters for women officers during World War II, and Dower from the fact that it was a part of the original estate reserved for Mrs. Durant's use.

SUMMARY OF STUDENTS

	Resident	*Non-resident*	*Class Totals*	*Totals*
Candidates for the B.A. degree	1,681	32		1,713
Seniors	364	23	387	
Juniors	377	3	380	
Sophomores	458	2	460	
Freshmen	482	4	486	
Candidates for the M.A. degree	6	4		10
Non-candidates for degrees	4	10		14
Total registration October 1960				1,737

Geographical Distribution of Students by Home Address

Alaska	2	Vermont	8
Alabama	11	Virginia	36
Arizona	6	Washington	12
Arkansas	5	West Virginia	4
California	66	Wisconsin	19
Colorado	8	Wyoming	3
Connecticut	113		
Delaware	13	Puerto Rico	3
District of Columbia	32	Virgin Islands	1
Florida	21		
Georgia	8	Argentina	1
Hawaii	8	Belgium	2
Idaho	3	Bolivia	1
Illinois	69	Brazil	1
Indiana	13	Canada	7
Iowa	13	Cuba	2
Kansas	10	Denmark	2
Kentucky	12	Dominican Republic	1
Louisiana	10	England	3
Maine	12	France	5
Maryland	41	Germany	2
Massachusetts	222	Greece	3
Michigan	33	Hong Kong	8
Minnesota	28	India	1
Mississippi	1	Indonesia	1
Missouri	41	Italy	2
Montana	4	Jamaica	1
Nebraska	9	Japan	2
Nevada	4	Kenya	1
New Hampshire	21	Korea	1
New Jersey	110	Mexico	1
New Mexico	2	Netherlands Antilles	1
New York	312	Peru	4
North Carolina	10	Philippines	1
North Dakota	1	Spain	1
Ohio	92	Sudan	1
Oklahoma	12	Taiwan	2
Oregon	6	Thailand	5
Pennsylvania	119	Turkey	2
Rhode Island	20	Union of South Africa	1
South Carolina	3	Venezuela	1
Tennessee	24	Yugoslavia	1
Texas	32		
Utah	1	Total Students	1,737

ALUMNAE INTERESTS

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Wellesley College

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and from the College ex officiis the President, the Assistant to the President, the Director of the Development Fund, and the Director of Publicity.

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I give to Wellesley College, a Massachusetts corporation, free and clear of all inheritance taxes, the sum of ..... dollars.

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